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LDITORS

FRANKLIN H MARTIN, Chicago AUGUST BIER, Berlin PAUL LLCÈNL, Paris B G A MOYNIHAN, Leeds

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FDITORS

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UR object in establishing the International Abstract of Surcessive Surcessive

In this number, we have been obliged to depend upon our local abstract staff in obtaining the abstracts of the German surgery. In our subsequent numbers, we will have a close working alliance with the Zentralblatt fur die gesamte Chirurgue und thre Genzgebrele and the Zentralblatt fur die gesamte Chirurgue und chebutshile sowne deren Genzgebrele in the same namer that we have in this number and will have in future numbers with the Journal de Chirurgue

In establishing the first journal in the English language devoted exclusively and comprehensively to indexing and abstracting the surgery of the world, we appreciate keenly our responsibility and realize that our success depends upon the friendly advice and criticism and the loyal support of the surgeons of America and Great Britain and the colonies

SURGERY, GYNECOLOOV AND OBSTETRICS with the supplement, the new Interantivota Lastract of SURGERY — the two combined more than doubling the size and cost of publishing SURGERY, GYNECOLOOV AND OBSTETRICS as it has appeared — will be sent to all paid subscribers of the journal until May, 1913, without additional cost This will give our subscribers an opportunity to judge of the importance, to them, of this change and to realize, judging from a business standpoint, that the publishers will be obliged to ask a proportionate mercase in the subscription price

It is obvious to any business mind that there are a considerable number of general expenses connected with the publication and exploiting of a single journal that would not be doubled by increasing its size, if it were still issued as one publication. If there is considerable demand for the breaking up of the journal into three separate journals—as, for illustration, (a) SURGERY, (SYNECOLOGY AND OBSTETRICS in its present form, (b) SURGERY, (SYNECOLOGY AND OBSTETRICS combined with the INTERNATIONAL ABSTRACT OF SURGERY, (c) the INTERNATIONAL ABSTRACT OF SURGERY, (c) the Considerably more than doubled It is, therefore, the desire of the editors to publish one comprehense suricial journal, to meet the requirements of all surgeons, at one prices

Because of this desire, there will be a three months' try out of the two publications under one cover, during which time there will be no increase in price to our paid subscribers. In the meantime, an extensive campaign will be conducted among our present subscribers with the idea of determining their wishes in the matter. If, as we hope, a large proportion of our present subscribers welcome and support the enlarged journal and a substantial interest is shown by surgeons who have never been subscribers to the present journal, it will be continued as one publication

INTERNATIONAL ABSTRACT OF SURGERY

FEBRUARY, 1913

ABSTRACTS OF CURRENT LITERATURE

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ANÆSTHETICS

Bryan, Lawen's Method of Anasthesia J Tens St M Ass , 1912, vi, 240 By Surg , Gynec & Obst

Disregarding the failures of extradural sacral angesthesia in the hands of numerous investigators, and following the success of Stockel who employed the method in obstetrical work. Lawen established its value in surgical cases Läwen assigns as reason for failure with his predecessors that the patients were not kept in the upright position during and following the injection until anaesthesia occurred If the upright posture cannot be maintained the body may be placed in a reclining position with the pelvis lower than the thorax The second reason for previous failures was that it required a longer time for the anæsthesia to be efficient here than elsewhere, \12, 10 to 25 minutes. The solutions employed are made as follows.

No 1. Sodu Bicarb C P (Merck) Sodu Chlorat 0 1 Novocame

Dissolve in 30 cc of distilled water giving a 2 per cent solution

Sodia Bicarb C P (Merck) Sodu Chlorat Novocame

Dissolve in so cc of distilled water, giving a I 5 per cent solution

The powder is placed in distilled water, brought to a boil (cinmal aufgekocht), cooled down imme diately, and five drops of adrenalin chloride 1-1000 are added It is then ready for injection. The dose of No 1 is 20 cc and of No 2, 20 to 25 cc injected at the hiatus sacralis, which is an easy procedure unless the membrane covering the hiatus has ossified

The following nerves are blocked anococcygeal, internal pudic, inferior hamorrhoidal, perineal, and

dorsalis penis or clitoridis Also the visceral branches of the third and fourth sacral, and occasionally branches of the first and second sacral

Stöckel employed the plan in 141 cases, Lawen in 80 cases, Siebert in 52 cases Bryan in 4 cases It is almost uniformly productive of complete local anysthesia and has produced no deaths and no sequely. The ill effects at the time are negligible

Crile Anoci-Association: A New Principle in Operative Surgery. Texas St J M . 1012, Vin, 136 By Surg , Gynec & Obst.

In this article, Crile made use of a thorough knowledge of physiology of the nervous system and psychology in explaining his new principle in operative surgery Anoci association was the word coined by him and used to designate a condition of the patient in which harmful stimuli (nociassociations) are prevented from reaching the brain by blocking or paralyzing the receptor mechanisms by anaesthetics or narcotics When these harmful stimuli, whether arising from fear on part of patient or from trauma to peritoneum or viscera, reach the brain, they give rise to exhaustion of the brain cells and excessive discharge of nervous energy. With this dissipation of nervous energy there results

a general functional weakness, which gives rise clinically to condition of shock. In speaking of the part played by anæsthetics in producing brain-cell exhaustion, he states that although ether angesthesia produces unconsciousness it apparently protects none of the brain cells against exhaustion from trauma of surgical procedures

With the use of nitrous oxide anæsthesia there is approximately only one fourth the exhaustion of

equal trauma under ether Considerable detail was given in discussing the effect of the emotions in causing morphologic

changes and exhaustion in brain cells

gests the following means to minimize or fully abolish the factors which act in an injurious manner upon the patient

I Great care and attention to details on part

of nurses, internes, and operators, 2 Administration of small dose of sconolamin and morphia previous to operation.

3 Use of nitrous oxide given by trained nurse auxsthetist in place of ether

4 Infiltration of entire operative field with novocaine or quinine and urea hydrochloride

5 Relief of gas pains by use of hot packs, opiates, and enemata

His recommendation of the principle of anociassociation is based, not altogether upon the reduction of mortality rate in his cases but also upon the almost incredible state of preservation of patients' nervous equilibrium and the great diminution of post-operative nervous impairment

R W MCNEALY

Nicolich Spinal Apaesthesia in Genito-Urinary Surgery (Rachianesthésie en chirurgie génito-un-naire) 26th Cong de l'Ass fran d'Urol Paris, Oct By Journal de Chirurgie

Many surgeons have ostracised spinal anæsthesia too completely Thus Legueu in his excellent Traité d'Urologie, says that he has abandoned it absolutely and that it may remain only as an exceptional method to be employed in special cases when all other methods of anasthesia are contrain dicated Nicolich finds that this is an exaggerated pessimism, and that we too often forget the accidents which are caused by chloroform

Since 1007 he has performed all operations on the cenito utinary organs with spinal anaesthesia. He has adopted the method of Jannesco and until now has been very well satisfied with this method of anæsthesia. Šaving accidents it has never caused the death of any of his patients, while he has lost

3 patients (2 nephrectomies and 1 cystotomy) as the result of chloroform anasthesia

Nicolich has performed 409 operations with sto vaine anasthesia 148 upon the kidney 42 upon the prostate, 85 upon the bladder, 12 upon the perineum, 124 upon the genital organs. The youngest of the patients whom he has operated was o the oldest 87 years of age The dose of stovaine and strichnin varied in ratio with the age and the general condition of the patient and the probable duration of the operation. The maximum dose for operations on the Lidney was 5 cg of stovaine, for operations on the bladder and on the prostate 3 cg always sufficed

Nicolich has examined the urine of a number of patients who showed no trace of albumin before the operation, and he has never demonstrated traces of albumin after spinal anæsthesia. He has observed post-angesthetic headaches rather frequently, and cannot say that strichnin, added to stovaine, has avoided this complication. In 5 cases he has observed absence and in 18 cases insufficiency of anæsthesia Vomiting during and after the operation was exceptional.

The grave symptoms which Nicolich has not been able to relieve in the patients upon whom he has operated comprise the following, complete paralysis of the bladder, once - this symptom disappeared two weeks after the operation, syncopal condition in three patients who were very aged - one or two injections of caffeine were the cause of this condition, ocular paralysis, once - this manifested itself 15 days after the operation and disappeared within three weeks, hemiplema of the right side and aphasia - this complaint developed 15 days after the operation and lasted twelve days. Nicolich has but very rarely observed a rise in temperature

He is therefore persuaded that spinal anæsthesia is decidedly superior to chloroform and other for use in genito-urinary surgery, because it is less dangerous and because it makes surgery of the bladder and the prostate much easier

Its opponents too often forget the bad effects of chloroform and of ether, and do not take the trouble to learn whether the accidents observed after spinal anasthesia are a consequence of the disease itself. of a mistaken indication, or of too strong a dose of stovaine I Drivovi

Nagelschmidt: Electric Sleep. Berl klin Wehnschr.

By Surg , Gynec & Obst 1912, xiix, 1849 Nagelschmidt discusses the various currents employed in medicine. The intermittent galvanic current of Leduc possesses peculiar properties It produces local analgesia and, if centrally applied, general narcosis. The dose for the stimulation of nerve or muscle can be regulated. The disadvantages of the current are its electrolytic effect upon the tissue thus limiting the quantity of applica-Faradic and sinusoidal currents are not constant Nagelschmidt has constructed an apparatus which may be attached to any multostat This induced current can be measured and regulated It differs from the Faradic current masmuch as it is milder and stimulates not only the pain carrying fibres but also those conveying heat and cold sensation. A stronger current produces complete anæsthesia in the extremity, so that an operation may be done Tactile sense is partially retained Applied to the brain of animals, complete parcosis ensues as with the current of Leduc The electric sleep seems not to be followed by any bad consequences In one animal narcosis was pushed until pulse and respiration ceased Rhythmical application of the same current resuscitated the animal Control animals remained dead

SURGICAL INSTRUMENTS AND APPARATUS Wakefield: The Use of the Continuous Fixed

Laparotomy Sponge. Am J Obst , N Y , 1912, By Surg , Gymec & Ohst In order to obviate the leaving of a sponge in the

abdomen. Wakefield has prepared for his use bags which contain each a long strip of gauze of suitable width, one end of which is stitched securely into the bottom of the hag, the other end being free. The strips are of such length and width that three bags are ample for the usual laparotomy, several bags are ample for the usual laparotomy, several bags are in readiness, however, for each operation. In the laparotomy sheet are three pockets, one at the upper end and one on each side, which are open towards the slit in the sheet and which are each large enough to loosely hold a bag. The bags are held securely in the pockets by means of safety pins or clamps. As a sponge or pack is needed, the end of a strip is withdrawn from the bag and, as soiled

is placed in the pocket alongside the bag, as a fresh sponge is needed, the unsoiled remaining portion of the strip is utilized. When additional gauze is needed, the pocket is emptied of its soiled conterts and a fresh bag is inserted. In case the sponge is infected, the fresh bag is pinned or clamped over the pocket to shut off the infected area. When a hot pack is required, sufficient of a strip is withdrawn from a bag, wrung out of hot salts solution and placed in position. Wakefield reports that he is very much pleased with the method

N SPROAT HEANEY

SURGERY OF THE HEAD AND NECK

HEAL

Henschen. Diagnosis and Operative Treatment of Traumatic Subdural Hæmorrhage Arch f klin Chir., 1912, 2013, 67 By Surg., Gynec & Obst

Henschen discusses traumatic subdural hæmortange in the newborn and madults. In the newborn,
subdural hæmorrhage is frequently brought about
by forceps extraction, protracted labor contracted
pelvis, abnormal positions of the head, hydroceph
alus, etc. Even in a spontaneous rapid labor
hæmorrhage has been known to occur probably
due to a sudden rush of blood into the delicate
cerebral veins. Other factors are anomalies of the
carnal bones, intracramal staiss due to an enlarged
thymos or thymoid or a cord twisted around the
neck, weakened vascular walls from alcoholism and
other poisons and toxins absorbed from the mother
and, finally, hæmorrhagic dasthess of lutter children

The hæmorrhage usually takes place from the large veins of the pia mater or from the cerebral sinuses. Beneke has reported 14 cases of tears in the tentarium producing the hæmorrhage Stoltzen berg found a tear in the intervertebral joint capsule of the cervical vertebræ in 12 per cent of asphyxiated newborn children In general, the amount of extravasated blood is from 40 to 70 cc, most of which is at the site of the injury The hamorrhage is usually unilateral, less often bilateral or diffuse, and most frequently located under the parietal bone The hæmatoma may be resorbed or encapsulated Infection sometimes occurs Pachymeningitis hæmotrhagica interno may result. The cortex compressed by the hæmatura undergoes softening, atrophy, and ultimately sclerosis with cyst formation and parencephalic defects In infants, the brain is protected somewhat by the elasticity and expansi-bility of the skull. The importance of subdural hæmorrhage in the etiology of the infantile hemiplegias and diplegias known as Little's disease has been recognized for a long time Epilepsy and Hemianopsia, idiocy are concomitant features cerebellar atama, and pseudo-balbar palsies have been reported in harmorrhages involving the cerebellum,

Children may be born dead, or after an interval of bours or days following mormal labor become suddenly asphynated and die with signs of increased intracranial pressure. The harmorthage may increase after birth owing to a constant ozong of blood. This occurs particularly when Schultze's swingings are used to resvicate the child. The danger of starting a fresh harmorthage by this method is obvious.

The symptoms vary according to the location of the hematuria below or above the tentorium, as has been pointed out by Sette A supratentorial himmorrhage is indicated by extreme restlessness, primary bulging of the large fontanelles with blunting of their edges, windening of the lambod's sturre, narrowing of the pupil on the side of the hemorrhage, conjugate deviation of the head and eyes, increased refexes, and slowing of the pulse and respirations. Most organizations of the sturred of the face, arms, or legs, and paress of the familia, hypoglossus, or cares. The may occur Lumbar puncture is negative to the study of the study of the study of the content of the canal subdural space through the outermost corner of the large fortanelles.

The symptom complex of peribullar or infratentornal hæmorrhage includes deep respirations, localized cyanosis, stiffness of the neck, spasificity of the limbs, convulsions, and secondary bulging of the fontanelles, due to stass and cedema. Lumbar puncture, if done early, shows a hæmorrhagic fluid

Operative interference is indicated in nearly every case, although the prognosis is absolutely bad In cases of slight harmorrhage of the convently bad In cases of slight harmorrhage of the convently meeting and aspiration of the extravasate through the large fontanelle should be attempted. A small trephine opening may be used in some cases Cushing has operated on o cases, and successfully in 4, by making an osteoplastic flap of the parietal bone, splitting the dura and washing the blood clot off with salt solution. Drainage is indicated when the hismorrhage cannot be stopped. In the peri-builar harmorrhage, puncture and trephining are useless. French authors report excellent results from repeated lumbar puncture. Henschen thinks

that a small trending opening behind the mastoid may do some good

In older children and in adults, 246 cases of traumatic subdural hamorrhage have been reported The hamorrhage may come from the middle meningeal artery, the carotid artery or the arteries of the convexity, especially the sylvian artery The large veins of the pia, the Pacchionian bodies, the internal jugular vein, or the venous sinuses may be responsible for the hamorrhage Lacerations, compression, or contusion of the brain substance are etiologic factors in some cases. A circumscribed hamatoma. over one hemisphere is much commoner than a diffuse hæmatoma A diffuse hæmatoma may occur primarily from a massive hæmorrhage, or secondarily by rupturing the primary clot and gravitating to the base of the brain, where it may cause sudden death by entering the fourth ventricle. A primary circumscribed hæmatoma anatomically may be (1) peribullar, (2) median intracerebral, or (3) over

the convexity Cortical irritation is produced by the denser portions of the clot. Small clots may not show any symptoms till increased intracranial pressure is produced by a serous exudation into the subarachmoid space with or without ordema of the brain

substance

The anatomical changes produced by slowly absorbed hæmatomas vary from simple atrophy and sclerosis to encephalitis, leptomeningitis pachy

meningitis, and cost formations The chinical picture is extremely variable cases do not show a so called 'free interval' The pulse is normal in many cases, according to Kocher The symptoms are usually progressive with localized headache, delirium, meningeal symptoms motor symptoms, and paralysis The diagnostic cerebral puncture of Neisser and Pollock is the surest diag

nostic procedure Of 166 operated cases 113 were saved Operation should be done to prevent post traumatic epilensy The danger of secondary hæmorrhage, the occurrence of continuous primary epileptiform attacks, the danger to the cortex from continual long pressure, the uncertainty of the course of the increased intracranial pressure phenomena, and the excellent prognosis of the operation, all urge immediate opera tive interference The opening into the skull should be made over the centre of the extravasate small trephine may be sufficient. The bulk of the clot should be removed. In every case where there is a possibility of secondary hamorrhage a drainage tube should be left in

Henschen concludes by giving 3 case reports E P ZEISLER

Hartmann. Cyst of the Brain, Extirpation, Cure (Kyste du cerveau extirpation, guerison) Bull el mem Soc de Chir de Par , xxxviii, 32, 1215 By Journal de Chirurgie

Hartmann has operated a young man 18 years of age for subcortical cyst of the brain, which seemed

to be traceable to a meningitis which had occurred at the age of five. This menungitis had at first provoked a paralysis, with contracture of the left upper limb, and identical condition, but much less marked, in the left lower limb Finally it caused epileptic crises, which of late had become more and more frequent, as many as 10 to 12 attacks occurring within 24 hours

After cranjectomy, Hartmann discovered a brownish area in the cortex of the right hemisphere. This he punctured and then incised without success Below it, however, he could feel with his finger a small round tumor the size of a small cherry, which could be enucleated with the greatest ease and without hemorrhage.

The effects of the operation were very gratifying. as the patient has not had a single crisis nor the slightest headache, he finds himself better than he

had ever been before

The tumor appeared to be a cyst with a fibrous wall of about 3 mm in thickness. Its external surface was smooth and evenly rounded Its cavity was filled with a fibrinous mass of a slightly reddish brown color, recalling the contents of old vaginal hematoceles I DUMONT

NECK

Mutschenbacher The Conservative Treatment of Tubercular Glands of the Neck (Ueber the konservative Behandlung der tuberknio-en Halslymphdrusen) Beitr z klin Chir, 1912, lxxx By Surg , Gynec. & Obst.

There is still lacking a unanimity of opinion among surgeons regarding the treatment of surgical tuberculosis, including tubercular glands of the neck In the beginning the treatment of surgical tuberculosis was radical, there were extirpations, enucleations, arthrotomics, resections, and amputations These radical measures were displaced by conserva tive ones which gave better results. Tuberculosis possesses a greater tendency to spontaneous cure than most of the other infections. This is especially true in sureical tuberculosis of children The ideal treatment is radical extirpation where this can be practiced Von Bergman's rules for operation still obtain (1) The disease must be confined to one gland or a few contiguous nodes, (2) there must exist no periadenitis, nor periglandular phlegmon

Von Mutschenbacher is a strong advocate of conservatism, having operated upon only 9 per cent of the 1344 cases which he treated in the last four The cases are divided by him into three clinical groups Group 1, solid hard glands, Group 2, softened broken down glands covered by intact skin, Group 3, suppurating glands with sinuses or ulcers

Group I Treatment by the various ointments and oils has been disappointing. The medicament has no specific value, and the massage employed in its application does harm by dissemination of the The value of fresh air treatment at the seashore or in the mountains is emphasized Diet is of great importance in these cases, since Heubner and Czerny have shown that alimentary intorications, as uell as improper duet and overfeeding, many about the so called status lymphaticus or crust admits of children. There is a hyperplana of lymphod tissues and mucous membranes, sosciated with a heightened susceptibility to infection. Individual metabolism should be studied with a view of arriving at a proper duet. In general, vegetable proteids, carbohydrates, and Iruits are preferred to mik and eggs. The Kontegen ray is a most valuable means of treatment and compares most favorably with operation. Under its influence lymphoid tissue disappears, leaving only stroma. To Finsen is due the credit for demonstratine the

value of heliotherapy, where the benefits derived depend upon the action of the ultra violet rays depend upon the action of the ultra violet rays. Under the indigence of the rays of the sun, oxidation in the tissues is promoted, and there is an increased amount of carbon dioxide given off. Red and white corpusales are increased in number. High altitudes are preferred, owing to the purer air. Roller advises the exposure of the entire body to the subject of the control of the subject of the subject

administered internally

Group 2 When softened, broken down glands are mened and curetted, the result is usually a large open wound which beals slowly, leaving an unsightly scar. One of the oldest methods of treating these cases consisted in aspiration of the pus and injection of some remedy. Buthner used arsenic, Bruns, indoform oil, Calot, naphthol camphor, Hutter, carbolic acid, Landeter, balsam of Peru, and Lannelongue chloride of ame. None of these reme dies is a specific, but all act in such a way as to pro mote the exudation of lymphocytes, which, aided by their ferments, assist absorption. After aspiration, the author injected a to per cent isodolorim glycern emulsion, with very satisfactory results.

Group 3 Aggressive surgical treatment in this group of cases has proven unsatisfactory Excision and curettage generally fail to cure. All that is done is to keep the wound clean and employ the general measures before mentioned.

CONCLUSIONS

- r Surgical treatment should be either extremely radical or absolutely conservative Such procedures as partial excision or curettage do more harm than good
- 2 Always begin treatment conservatively, because it can do no harm and frequently converts an inoperable case into one favorable for radical treatment
- 3 Conservatism should be practiced in cases of recurrence following operation William Hessert
- Sasaki Experimental Study of the Cause of Goitre. Drutsche Zischr f Chir., 1912, cxix
 By Surg., Gyncc & Obst.
- E. Burcher, who has experimented upon different animals (dogs, monkeys and particularly rats) with

so-called "Kornfbrunnenwasser" (goitre water). found that he could produce nodular and parenchymatous hypertrophy and symptoms similar to those in man, by injecting the filtrate of the water which had been passed through a dense filter. While Wilms was of the opinion that soluble toxins, possibly from decaying organic matter, were the cause. Bircher was of the opinion that the substances were of colloidal nature Sasaki examined 125 rats with regard to this question After feeding with different toxins, such as decaying meat or bad rice, or after injecting dirt or excrements, he found that he could produce distinct hypertrophy in the rat-This could be proven by dissection and microscopic examination Feeding at the same time, or injecting, potassium iodide or iodine failed to produce struma

Curschmann: Intermittent Symptoms of Exophthalmic Goitre, Zischr f kim Med , 1912, 1xvvi, 242 By Surg , Gynec & Obst

Observation of 3 patients, one with tabes dorsalis and two with bronchial asthma, who presented intermittent attacks of exophthalmic goitre tabetic was in the moderately atactic stage and suffered during severe attacks of gastric crises from fully developed symptoms of Graves' disease with bilateral exorphthalmos, symptoms of Garfe and Stelwag, considerable thyroid enlargement, tachycardia, sweating and tremor of the hands These symptoms disappeared originally with cessation of the crises, later, about 11/2 years before death exophthalmos and thyroid enlargement persisted in the intervals between the crises The author lays stress upon the coincidence of the thyroid attacks with the gastric crises Malaise was the first to point out that these attacks might be due to involvement of the sympathetic system, later investigations showed that they are due to sympathetic or vagus affections The intermittent character of the attacks and their coincidence with abdominal crises stamp them as products of vago sympathetic lesions Papillary sympathetic symptoms were insufficiently observed on account of the Argyll-Robertson pupil Sympathicotonic symptoms predominated during the crisis, in particular the rise in blood pressure and the tachycardia Anacidity or subacidity of the gastric juice is a sympathicotonic symptom was present between and during the attacks profuse sweating and dermatographia may be considered as due to vagatoms. The prompt response to adrenatin administration speaks again for the sympathetic origin of these Graves symptoms Imitation of the thyroid gland may be of nerous (sympathetic), inflammatory and genital origin. In tabes the thyroid symptoms are neurogenous. The locality in the nervous system where these imitations originate is still undetermined Degeneration of the posterior roots shows changes in the sympathetic fibres passing through the posterior roots Morat and others suppose affections of the thoracio sympathetic to be the cause of vasodilatory swelling and hypersecretion of the thyroid gland. The in termittence is based upon the functional peculiar ties of the vegetative system, inasmuch as chronic now of anatomical or functional nature produce disturbance only when a certain inherent tolerance has been exceeded.

Two cases of bronchial asthma presented attacks of exophthalmic goitre symptoms synchronous with asthmatic attacks. Profuse diarrhora, physical disturbance, in conjunction with all the other classical symptoms, were marked "hirmacological"

tests were as follows. Marked adrenalism mydrasis, increased tolerance to filocarpin (sympathicotonic), adrenalin glycosurs polyuria test negritive (vaponia). The symptoms of intermittent Graver's disease in these cases may be interpreted in the same manner as in the tabetics, namely, as due to instaction of the nerves regulating the secretion of the through the properties of the properties of the same absence of thy rold swelling is found in cases of genuine copylithalmic gotter. E. C. Russi.

[Monograph.] Gushing: The Pituitary Body and Its Disorders Clinical States Produced by Disorders of the Hypophysis Gerebri J B Lypancott Company, Philadelphia and London, 1912 By Surg., Gynec & Obst

A risume of a book such as this implies a some what unsatisfactory presentation of a practically new realm in medicine. It means an absence of detail so essential to a comprehension of three advances, and a loss, furthermore, of the authors style and enthusians which suggest in a say the style and enthusians which suggest in a say the following outline, then, necessarily can be little more than an amplified index of the investigator's

work in this direction As Prof Cushing says in his preface ' There are few subjects in medicine which promise a wider overlap upon the fields of many special workers than this one of hypophyseal disease I rom the frequent direct implication of the optic nerves by the glandu lar enlargements the ophthalmologist has often been the first to recognize these maladies neurologist's interest was early aroused through the pressure disturbances on part of the encephalon, and will be reawakened in view of the possible rela tion of epilepsy to glandular insufficiency gynecological and genito urinary clinics have long generological and genito urinary clinics have long been frequented by the fat amenorrheiss and impotent males with hypophysical disease, and the studies of Erdheim and Stumme will give the scien tific obstetrician reason for study for years to come The experimental and morbid anatomist has been aroused to renewed interest in ductless glands, particularly from the standpoint of their interrela tional activity The importance of focusing a knowledge of these states upon the internist, and especially upon the pediatrician, is evident when we realize that, except for the adult acromegalic conditions, the manifestations of hypophyseal disease have been almost entirely overlooked, and now that organotherapy promises much for all cases of glandular insufficiency, whether adult or infantile,

it will need no prodding to bring this about
"Specialists whose activities are as divergent as
those of the actinographer and the physiological
chemist are now called upon, not only to aid in
matters of diagnosis, but it lies in their province to
add materially to our further knowledge of the

subject. To the general surgeon, duties now fall shith a few jears ago are restored sunningsteddidties similar to those he has assumed in the case of such thyrod enlargements as are productive of pressure disturbances. Und needless to say, to the operating specialist in maladies of the nose and throat the subject is of prime importance, not only because the hypothysis stieff abuts upon his preserves but for the special reason that there exists a playing grange which may possibly be a not some physiological properties of importance to the organism.

The book in large part, represents a correlation of a series of experimental investigations with a number of clinical states. The former make it seem very probable that such sy advomes as these are due to disorders of hypophysical functions. In accommendation of the state of th

PART I

This concerns the anatomy, physiology, pathology and chemistry of the hypophysis "Its extraordinarily sell protected position, its presence in all vertebrates and persistence throughout life, its remarkably disposed and abundant blood supply, would of themselves be enough to stamp the hypophysiological properties of the properties of

The reactions of posterior lobe extract (acute effects) are quite similar to those of extracts of the adrenoin medulis. The extract contains, moreover, a powerful galactogogue substance, said to be more powerful than that possessed by extracts of the corpus laterum. The presence of the active prunished.

of this lobe in the cerebrospinal fluid is "claimed on the basis that corresponding physiological reactions are obtained by the injection of slightly concentrated fluids of both man and animals

"The anterior lobe is religively speaking inactive such reactions as occur with its extracts being attributable to traces of pars intermedia in the ordin

arations '

"Repeated subcutaneous injections of sterile critacts or enumbions of the whole gland or of the posterior folic alone given subcutaneous historia effects), are apt to lead to enaciation. This is the reverse of that effected by portial estimation leveling to states of insidicence, and indicates a stimulous to states of insidicence, and indicates a stimulous metabola, processes. No noteworth changes were detected following corresponding injectious of an anterior estracts. The results from injection of entracts (deep) have been largest negative.

With glandular transplantation experiments the results thus far indicate some therapeutic possibili ties for the method Certain definite constitution il disturbances were observed in animals which had recovered after partial hypophysictomies viz widespread adiposity, nutritional changes in the skin and its appendages disturbances of carbo hydrate metabolism of body temperature of growth, and of renal secretion sexual mactivity or actual atrophy of reproductive glands in some cases and histological modifications in most of the other ductless glands. Such disturbances simulate some of the clinical syndromes observed in man it was these findings that gave the first experimental proof that certain heretofore recognized clinical syndromes are a consequence of lessened glandular activity

In cases of anterior lobe detailency ipituitary gland proper) it was found that a thermic reaction occurred after injections of boiled anterior lobe extracts. This has been used as a clinical test of states of anterior lobe deficiency.

Certain interpretations are drawn by the author from the results of his own and other listorations: "Normal posterior lobe activity is exentful to effective carbody drate metabolism an intracenous injection of posterior lobe extract produces glyco groolyws, and its continued administration excessive amounts leads to emacrition. A diministration of posterior lobe secretion occurring in certain conditions of hypoputurians in (whether experimentally produced or the right of disease) leads to an acquired high tolerance for sugars with the resultant accumulation of fat."

The first experiences "with hypophysectomized dull cannes deprived of all but a fragment of the pass anterior disclosed a chinical 53 addome adaptivety, increased sugars tolerance, lowered body the passion of the pas

The production of corresponding hypophyscal

defects in puppies later revealed a syndrome (persistence of sexual infanthism and the additional factors of skeletal undergrowth and evident psychic disorders) corresponding with the human typus Fo84th k.

FASTILE

A consideration of the pathological aspects of the glaid makes it clear that "in every case of increased intractinal tension from whatever source, there probably occur secondary changes in the hypothysis, often with growt deformations and resultant functional disturbances which frequently clicat recognizable clinical manifestations."

The Hunterian Laboratory studies have shown the important relation of at least the pottern lobe to the extretion of carbohydrates. Since the gland may be in condition either of physiological competence or of incompetence, it is necessary that cognizance of such conditions be taken into account in all metabolism observations in these states

PART II

Whereas Part I concerns the facts "acquired largely through anatomical and experimental researches upon animals this section deals with the clinical and pathological aspects of the question in

Because it is often impossible on clinical grounds, to tell whether or not many of the interpoduncular tumors are actually glandular in origin, and because recognizable by jorphyscal symptomy brought about by distant k sions—cerebral tumors for example—prove to be so uniformly present the author makes

he subdivisions of these pituitary cases (aroup I "Cases of dispituitarism in which not only the signs indicting distortion of neighboring structures but also the symptoms betraying the effects of alternal elevations extend

effects of altered glandular activity are outspoken " Group II ' Cases in which the neighborhood manifestations are pronounced, but the glandular symptoms are absent or inconspicuous"

Group III Cases in which neighborhood manifestations are absent or inconspicuous, though glandular symptoms are pronounced and unmistakable Group IV Cases in which obvious distant

cerebral lesions are accompanied by symptomatic indications of secondary pituitary involvement." Group V. "Cases with a polyglandular syndrome in which the functional disturbance on the party

in which the functional disturbances on the part of the hypophysis are merely one, and not a predominant feature of a general involvement of the ductless glands."

"Under each of the first four groups there sull naturally occur three subdivisions namely (f) the cases in which the clinical manifestations of just or of easting hyperplatinarum predominate (more particularly oxignosth, resulting in excitism when the process anteclates ossification of the epiphyses bypur Launisi, resulting in acromegal, when it is of later occurrence—typus Marsel; (2) those in which the clinical manifestations of hyperplatinarum predominate (sulposity with a presistence of both skeletal and sexual infantilism when the process originates in childhood - typus Fröhlich, admosity with sexual infantilism of the reversive form when it originates in the adult - the type we have explained on experimental grounds), and (3) the mixed or transition cases exhibiting some features of both statesin other words, with evident dyspituitarism

The elastic character of these groupings is shown by the statement, "We must fully realize . . as conditions change these cases will naturally shift " Again,

from one to another of the groups this tentative classification fails to take

into account the progressive nature of the disease " That this arrangement is only temporary is well shown in the following "We are unquestionably anoroaching a stage in our knowledge when the classification or grouping of the cases, here employed as a provisional basis for clinical use, will no longer he necessary However, it may temporarily serve others, as it has served us, and some one, it is to be hoped, will provide a more useful subdivision, if any

subdivision at all is necessary "Clinical states of increased functional activity states, unfortunately, which as yet are beyond experimental reproduction - have with but few exceptions been shown to be associated with an enlargement of the gland caused by a hyperplastic

or adenomatous process

"On the other hand, clinical states of diminished functional activity, when associated with tumor, may be due either to an actual loss of glandular tissue from partial destruction by an infectious or malignant growth, by vascular disease, hæmorrhage, cyst formation or what not, or, on the other hand. and what is perhaps more common, to the mere blocking of the secretory activities from a super imposed interpeduncular growth "

Two hundred pages are devoted to a detailed presentation of cases illustrating the various groups of cases These are discussed in a uniform manner,

an outline of which is here drawn

Case number, name, age, occupation, address, complaint, family history, personal history, present malady, physical examination - height, weight, visceral examination - cardiovascular, blood pres sure, urine, blood, analysis of hypophyseal manifestations, neighborhood symptoms, (X ray of sella, eyes, pharyngeal exam, etc), general pressure symptoms (eye grounds, headache, etc), glandular symptoms (head hands, feet, cutaneous, hur, subcutaneous), carbohydrate tolerance, polyuna thermic reaction, other ductless glands (gentals, thyroid, adrenals) Operation Histological picture of tissue, subsequent reports interpretation

This section of the book abounds in splendid illustrations of patients and pathological material Visual field charts and X-ray plates are reproduced

in each case presented

PART III

Here is given a general review of the incidence, symtomatology, and treatment of pituitary body

diseases "Among the factors of an incidental nature which deserve especial comment are inheritance, developmental defects, trauma, physiological epochs of life, and infectious diseases

Regarding inheritance, the author states that "there may be certain inherited deviations which may in all likelihood be attributable to transmissible duttless gland properties, and glandular instability may exist in these individuals which makes them more susceptible, under stress, to alterations which border on the pathological, Such periods of stress may occur during the course of the more serious physiological epochs of life. through accidental or operative grandular mutilations, or as a consequence of disease, notably

infections " Trauma seems unquestionably to play a certain rôle. In its relation to intracranial tumor in general it represents about 15 per cent of the author's series

of some 300 cases

Puberty, according to the author, has a very intimate relation to the pituitary body "The rapid increase in stature which occurs during the adolescent period is in all likelihood due to an hypophyseal hyperplasia Early sexual development indicates early closure of the epiphyses, delayed puberty suggests delayed epiphyseal union The same factor may well account for the occasional spontaneous glycosurias characterizing this period of life, and it is not improbable that during this epoch the tolerance for carbohydrates is actually low in all individuals, as is possibly true also in pregnancy, in which state a transient physiological hyperpituitarism is more clearly demonstrable

'It is conceivable, furthermore, that the acquirement of secondary sexual characteristics in some way be dependent upon a primary hypophyseal stimulus The reverse condition namely, failure to acquire secondary sexual characteristics stunting of growth, and a high rather than a low tolerance for sugars - due to hypophyseal unsufficiency is easily produced by partial experi-

mental extispation in preadolescent animals." Regarding hibernation he says "It is suggestive at all events, that in both the physiological state of hibernation and the pathological condition of hypopituitarism there is a tendency toward unwonted sleep, a subnormal metabolism with diminution of CO: output, a definite hypoæsthesia of the body to painful stimuli and, in the males at least, an hypoplasia of the sexual glands. In the clinical states moreover these symptoms can be largely alleviated by glandular administration

The hypophyseal relationship to pregnancy appears to be somewhat more clear, due especially to "It is not studies on functional hypertrophy impossible that normal parturition may be incited by the secretion of the hyperplastic gland, which reaches its culmination in the last month of the gravid state and which periodically discharges with the menstrual cycle." Moreover, repeated involutions from the hyperplasia (or functional hypertrophy) may bring about a physiological inactive condition of the gland Thus a measure of hypopituitarism may account "for the excessive adiposity, loss of hair asthenia, subnormal tempera ture and so on, not uncommonly seen in women after multiple pregnancies On the other hand, the transitory clinical manifestations of gland over may persist or even increase, after the termination of pregnancy

The symptomatology of pituitary body disorders is arranged under four groupings

Group I Neighborhood Signs and Symptoms

1. Subjective disorders (a) Headaches usually bitemporal often severe and persistent when there is considerable glandular hypertrophy pituitary beadaches are quite different from those incited by a general increase of intracramal tension " (b) Photophobia 'is often associated with deep

orbital discomfort and sensitiveness of the eyes to pressure "

2 Defermation of the sella turcica . Three types may be distinguished (a) those associated with thickening of the clinoid processes and dorsum enhand t. (b) those with thinning from pressure absorption of these parts and (c) those with more or less destruction of outlines 1 radiographic study of the subjacent sphenoid is of importance as well as the mere configuration of the sella itself "

Under certain circumstances stereoscopic plates are absolutely essential "and indeed they are desirable in all cases the head being tilted slightly so that one may look directly in the forsa. It is often necessary to make repeated exposures from different points of view for it is disconcerting to secure a negative which discloses a well formed though displaced and thinned-out sella when previ ous ones have seemingly shown complete oblitery

tion of the structure

"Protile radiographic measurements exceeding 15 mm anteroposteriorly and 10 mm in depth may be looked upon as indicating an enlargement. It is our impression that single plate expensive should be made by focusing directly over the hypophysis perpendicular to the sagittal plane whereas stereo scopic exposure should be made from the side and above, so that one may look down into the fossa

"It is presumable that serial radiograms may under some circumstances be of value in deter mining whether or not the hypertrophic condition

of the gland is advancing

3 Visual disturbances "The degree of implica tion of chiasm nerves or tracks bears no direct relation to the size of the sella

Checked disc only appears in the late stages The ophthalmoscope usually shows a primary atrophy. With occlusion later of the foramina of Mouro, however, "a choked disc may become superimposed on the atrophic nerve head

"It is safe to say that the ambly opia associated with a primary atrophy more often represents a physiological block to light impulses than an actual

destruction of the nerves, as the post-operative restoration of vision in previously blind eyes in a number of individuals of the series exemplifies

"Exophthalmos, to some degree, is shown by almost all the patients with tumor - probably a

purely local stass phenomenon

a Perimetric deviations. In all but two of the twenty-three patients showing pronounced neighbothood symptoms some distortion of the visual field has been demonstrable

The supposedly typical bitemporal hemianopsia, with a vertical meridian which bisects the macula is conspicuously rare in this series mous defects or tendencies in this direction are at

least half as frequent as bitemporal ones "

Moreover "unilateral amblyopia may occur with but little if any perimetric deviation in the field of the opposite eye, and what is perhaps of greater clinical significance mere tendencies toward temporal defects must be carefully looked for, particularly only defects limited to the color perioheries, if one wishes the perimeter to serve in making a diagnosis before the time when crude tinger tests suffice to demonstrate a complete hemianopsia

In all cases the color fields are involved first: the form fields are involved later Rarely are the two eyes affected in equal degree,

operation, restorations occur in reverse order Oculomotor implication of some degree, in many

patients was suggested by the history of periods of double vision or was obvious from palsies apparent at the time of admission " Nystagmia of slight degree has been observed

frequently even when the ocular movements have been unaffected by palsies

Accompanying extrasellar lesions there may be other evidence of local implications of cerebral nerves such as anosmia and trigeminal neuralgia. Similarly there may be uncinate seizures or evidences of frontal lobe involvement

5 Nasopharyngeal signs "A history of troublesome epistasis is very common. It is not unusual for patients to mention an occasional unexpected and intermittent discharge of mucus into the pharynx In view of the unquestionably close relation of many states of dyspituitarism - particularly those of primary glandular insufficiency - to lymph hyperplasia (status thymoly mphaticus) it is quite probable that there may be a tendency toward adenoid formation in the pharanx

Group II The General Pressure Symptoms

Diagnostic errors emphasize the necessity for care here ' Doubtless every patient with pituitary manifestations, in whom there is any suggestion of pressure symptoms, should be scrutimized with the possibility in mind either of an intracranial extension of an hypophy seal struma or of a coincident growth elsewhere A neuroretinal cedema -- ordinarily the most reliable sign of tension - may be wanting, even with extreme tension from a large tumor and

secondary hydrops of the lateral ventricles This is occasioned by the envelopment of the ontic nerves by the tumor so "as to prevent crowding down of cerebrospinal fluid under tension into Schwalbe's sheath " Vomiting "is particularly unusual in these . Headache, therefore, may be the only symptom" (at first evident) Among the "tell-tale signs of pressure" which are of value are "the extracranial evidences of venous stasis shown by the fullness and tortuosity of the palpebral venules, as well as of the larger veins of the scaln The X-ray may show not only the signs of pressure enlargement of the diploetic channels but also points of pressure atrophy brought about by the small arachnoidal hermations of Wolbach

Group III The Glandular Manifestations

r Skeletal "One point, at least, is now general ly accepted, namely, that the skeletal changes in grantism and acromegal, are expressions of the same morbid influence." On the view of transient hyperpituitarism, Prof. Cushing makes the following explanation.

"The disease is the expression of a function al instability of the pars anterior, doubtless brought about by some underlying biochemical disturbance which leads to the elaboration of a perverted or exaggerated secretion containing a hormone that accelerates skeletal growth (of the long bones if epiphyseal union is incomplete of the acrol parts if epiphyseal ossification has taken place) the functional disturbance is probably a fluctuating one, with periods of increase and remission as is known to be true of hyperthyroidism epiphyseal ossification may occur during a period of quiescence in the disorder 1 subsequent recrudescence with resumption of the perverted functional activity will then serve to superimpose acromegalic mani festations on primary gigantism grown individuals exhibiting no acromegalic ten dencies it is interesting to note that traces of the epiphyseal lives are still demonstrable

The sellar configuration the radial epiphyses and the phalanges of the hand are the three most useful and convenient sources of information at least where adult types of overgrowth are concerned latter "is a particularly dependable sign " There may be also mandibular or maxillary prognathism, spacing of the teeth, rounding of the shoulders, sternoclavicular enlargement or change in the cranial configuration Skeletal undergrowth may result from hypophyseal glandular insufficiency when the process takes its start before full stature is attained "This is true likewise of deficiency in other members of the ductless gland series - in the thyroid, the adrenal and the thyma, as is known both from clinical and experimental observations " However, "it is unwise to lay too great stress on anything other than the possibility of an indirect hypophyseal participation in the dwarfed stature characterizing the many types of infantilism

"When the hypopituitarism dates from the

adolescent period, there occur changes other than the mere failure of full development of the long bones. Apart from the feminine disposition of the associated adoptors, the males actually possess a feminine type of skeleton, with broad pelvis and a certain degree of perio valgum. Notable, too, is the smallness and delicacy often shown by the extrema light of the period of the period of the period of the "type es forge" of grantism and the "type es forge" of acromegally, which Mane has differentiated.

2 Cutaneous and subcutaneous The coarse features of acromegaly "include not only an increase in the size of the hair follicles, but also an hyper trophy of the papillæ, with enlargement and activation of the secretory glands, so that the skin becomes greasy and moist There is also an augmentation in the connective tissue of the subcutis, which may even extend to and involve the muscles. giving the tissues a dense, boggy feel, with an apparent increase in depth of the furrows of face and hands A large part of the thickening and bogginess must be due to an accompanying ordema The tendency to hypertrichosis is marked in many of these individuals during the period of activity of the process

"The cutaneous features of pumary hypoptunation are quite the evers. Here the slan, except in the older patients, as smooth, transparent and notably free from mosture. Though the hard of the scale may be abundant it is othersies on the body, for the aniliary and pube hair may be almost wanting or in the males may assume a feminine type of distribution. The nails are apt to be small, thin and do not show the crescents at their base. When hypoputuratisms oneputures in adult life there is a tendency for the hair, even of the head, to become tinned.

' Pigmentation is a conspicuous feature of many of the adult states ' (hypopituitarism)

Adiposity "The acquirement of an excessive subcutaneous deposit of fat is one of the notable clinical features of many of these cases." Of course, deficiencies on the part of other of the ductless glands than the hypophysis may cause an increased deposition of fat.

The symptom-complex of adposity high sugar tolerance, subnormal temperature slowed pulse, asthena, and dronsmess very probably is attributable to a secretory defect of the posterior lobe. The reverse condition — emacration spontaneous glycosuria with hyperglycomia and a slightly elevated temperature — follows posterior lobe administration.

It is important to bear in mind that "an internal hydrocephalius is capable of producing an insufficiency of posterior lobe secretion, and at the same time may apparently either stimulate or inhibit anterior lobe activity." Moreover: "a timor is not essential to the chinical condition" of hypopituatism, "for a primary posterior lobe hypopilasia may elicit the same constitutional manifestations. Hence, coupled

with obesity we may have the combination of overgrowth with sexual precocity or the reverse, or of undergrowth with sexual precocity or the reverse.

Carbohydrate tolerance The factor of sugar tolerance, especially from a diagnostic standpoint, is considered to be quite important. The tolerance appears to increase directly with the degree of hypopituitarism "In many of the outspoken cases of primary, rather than secondary hypopituitarism, the high assimilation limit has been even more marked, one of these patients being able to retain 450 grams of levulose with no resultant mellituria, and in this case the existence of a persistent hypoelycomia was demonstrated. We have come to regard the sugar tolerance as a means of posterior lobe activity, and it is possible that the degree of hypopituitatism may be determined by an estima tion of the sugar content of the blood rather than by the more tedious production of alimentary gly cosuria through feeding tests "

Polyuria and polydipsia In certain cases in all probability, "the polyuria is due to the excessive elaboration of the hormone contained in the pars nervosa secretion Confessedly however there is some difficulty in satisfactorily explaining the diuresis which may accompany hypopituitarism, for one would suppose that individuals in stages of glandular insufficiency would show more consistently than they do, a lowered urmary out put "

l'ariations in body temperature 'Our inter pretation has been that the subnormal temperature was merely one of the many evidences of the lowered metabolic activity characterizing hypopituitarism We have hoped that the thermic response to anterior lobe injection would be available as a measure of pars

these reactions can be given any wide clinical application "

Blood pressure changes A low arterial tension often below 100 mm of mercury in fairly vigorous individuals, and as low as 70 mm from time to time. when they begin to complain of asthenia - and a slowed pulse are common features of the states of

anterior activity Further study is necessary before

hypopituitarism Other symptoms of insufficient hypophyseal activity which may be present are drowsiness and torpidaty, insensitivity, constipution, and psychic disturbances I'sychic disturbances etiologically fall into two categories, (1) Those 'due to the involvement of temporal and frontal lobes by the pressure distortion of a growth" These then are neighborhood signs "Notable always is the utter lack of appreciation of, and complete indifference to, the existing condition "(2) Those "due solely to the effect, on the one hand, of an excess or perversion of glandular secretion, or, on the other, of an insufficiency of secretion" (a) With hyperpituitarism "Here certain temperamental changes are often apparent, with wakefulness, lack of concentration. indecisiveness, irritability, distrust, and so on -

psychasthenic states which are not unlike those with which we are familiar in moderate grades of dysthyroidism" (b) With hypopituitarism. All gradations of disturbance are to be found, "from mild psychoses to extreme mental derangements with epilepsy

Group IV Symptoms Referable to Other of the Ductless Glands

"As De Lille has pointed out, we may find a suggestion of susuffisance pluriglandulaire combined either with hyperpituitarism or with hypopituitar-Secondary to hypophyseal lesions three histological types of testis may be distinguished (a) The interstitial cells are unusually abundant fully acquired secondary characteristics. The tubules are preadolescent in type and contain no spermatozoa (b) There is a paucity of interstitial cells - secondary characters of sex are never fully acquired There is a feminine type of adiposity, hirsuties and so on The testes, however, have fully developed tubular epithelium with spermatozoa - active sexual hie (c) There is a marked lack of development of the tubules - impotence This is accompanied by a complete absence of interstitial cells - absence of secondary sex characteristics

In both males and females "the reproductive function may not be impaired, even though full secondary sexual characteristics have not been sequired." It is likely that "in females as well as in males the glandular element which is responsible for the physical changes of puberty differs from that which is concerned with ovulation and reproduction, and may possibly be a function of specific interstitial cells The relation of hypophyseal disorders to the physiological activities of the ovary other than those concerned with the acquirement of adolescent characteristics, is unquestionably a very close one and amenorrhoea is an early symptom whether the disorder is on the side of overfunction or of underfunction "

It is the author's impression "that the thyroid gland is most apt to show enlargement in individuals with clinical evidences of past hyperpituitarism, suggesting that the same underlying blochemical factor causes an hyperplasia of both structures. rather than that the thyroid assumes a compensatory and vicatious rôle for the hypophysis"

"Symptoms are often present which are very suggestive of functional insufficiency of the suprarenal bodies - pigmentation of the skin, asthenia, low blood pressure, and hypoglycamia These symptoms have been more pronounced in the individuals with dyspituitarism in whom evidences of former hypophyseal hyperplasia were evident."

The status ghymolymphaticus is probably "a secondary consequence of the pituitary lesion, rather

than merely a coincidental disorder

It seems likely "that changes in the pancreatic islets are less essential to disturbances of sugar metabolism than we had supposed "

"A number of successful cause pineal extirpations . . led to no recognizable post operative symptoms" In the human cases examined, no hyperplasia nor microscopic deviations from the

normal were recognized These are divisible, on developmental and histo logical grounds, into (a) "the homoplastic growths of the pituitary body proper the hypertrophies or so called strumas of the gland itself "Here "we must distinguish the physiological from the pathological hypertrophies In their histological configu ration these adenomatous strumas show considerable variation, their chief point of resemblance lying in the neutrophilic character of the cellular elements (chromophobe struma) rather than in the anatomi cal disposition (b) The extrapituitary or heteroplastic tumors which arise usually from some neighboring anlage These are more strictly speaking, true neoplasms which implicate the hypophysis.

if at all, merely through the agency of compression "No case of acromegaly has been associated with a heteroplastic tumor except one in which a glandular hyperplasia and cerebellar cyst were coexistent. furthermore, in all cases of acromegaly in which a large homoplastic chromophobe struma was demon-

strated evidence of glandular insufficiency had

12

begun to be apparent 'On the other hand, manifestations of primary hypopituitarism always accompanied the hetero plastic tumors which served to compress the gland. and were often an accompaniment, also, of the large chromophobe strumas These enlargements may occur, therefore, in the glands that have not under gone the primary hyperplastic transformation to which acromegaly is commonly accredited "

"From a therapeutic standpoint we are confronted by a variety of problems, some of which call for mere symptomatic medicinal measures, some for operative relief, and some for the adminis tration of glandular extracts to make up for a defi-

cient secretion

"Surgical measures resolve themselves into (1) a sellar decompression (a) for persistent hypophyseal headaches, (b) for the purpose of encouraging the extension of a glandular struma in the direction of the sphenoidal cells rather than into the cranial chamber, (2) the partial removal of an hyperplastic gland in the active stage of hyperpituitarism, (3) the partial removal of a tumor or struma for the rehef

of neighborhood symptoms, (4) a subtemporal decompression for the palliation of pressure symp toms when an intracranial extension has occurred. (3) a subtemporal or sellar decompression, or both, to permit of the more favorable and direct applica tion of radiotherapy, (6) the exposure of the brain or of some other organ in case of marked hypopitus-

tarism, for the purpose of implanting a viable gland "The operation of choice for the majority of cases, as being less mutilating and yet one which furnishes as wide an avenue of approach as any, is a transphenoidal operation through a median inferior nasal opening, reached by sublabial incision and a submucous resection of the vomer, the turbinates being flattened but not removed The essential precautions are (1) to be correctly oriented in regard to the sphenoidal cells, so as to avoid a mis directed approach to the posterior ethmoidal region (2) to be sure of the local condition by a careful stereoscopic study of X ray negatives, and to operate under their guidance, (3) to have perfect anæsthesia, (4) to have the courage to withdraw for a second session in case there is any uncertainty as to the character of the tissue exposed after incising the pituitary capsule "

"The operation of second choice — a subtemporal procedure - may be necessary in the case of a super imposed lesion with a small sella, or when with an enlarged sella a flattened gland is interposed "

A tabulation of operative experiences with 43 cases is incorporated here

Among other therapeutic measures is glandular

administration "Animals suffering from a known deficit of glandular secretion could be benefited by injections of extracts, by glandular feeding, or by implantations of hypophyses from other sources This applies to human patients also, though "the therapeutic administration of extracts by mouth is fraught with many disappointments " Hypodermic and intravenous administration of the extracts is definitely more effective, although the whole ques tion of gland transplantations is still very unsettled "Doubtless much may be expected from these measures in the future ?

With radiotherapy, the results have been very encouraging thus far The failures to substantiate the earlier claims for the rays in exophthalmic gostre, however prepare one for a possible like disappointment here

SURGERY OF THE CHEST

CHEST WALL AND BREAST Mckenty On Paget's Disease of the Breast Surg , Gynec & Obst , 1912 xv, 457
By Surg , Gynec & Obst

Two cases are described in detail by the author, as they both came under his personal observation Reference is then made to Sir James Paget's defini tion of the disease as it first appeared in 1874

According to Paget, this disease appears in women between the ages of 40 and 60, beginning as an eruption in or around the nipple Retraction of the nipple then follows, and the surrounding skin becomes a florid red color and exudes an abundant, clear yellow fluid Subsequently a carcinoma develops deep in the breast, with an intervening area of clean, healthy tissue

The histology of the disease is as follows

a Proliferation of the stratum malnighi This was regarded as characteristic of the disease by Butlin in 1576, in association with infiltration of the corum According to several authors mentioned his process of proliferation of the deep layers of the skin may go on to such an extent that the appearance will be that of an ordinary cynthelion.

A Infiltration of the corum This infiltration is due to a plasma cell infiltration, and is regarded by Unna as a defensive process against the invasion of epithelial cells into the surrounding tissues

c Plugging of the milk ducts This phenomenon is due either to a proliferation of the lining epitheli um of the ducts or to a spreading of the diseased anidemic.

d. Presence of coccidia These were originally considered as a cause of the disease, but this has been denied by recent observers

The chief points in the diagnosis are as follows. The patient is usually a parous womin over 4 oyears of age. The first thing noticed is an eczema in or around the inpiple which resists treatment. Retraction of the inpiple follows and the inpiple becomes surrounded by a bright red area which may be dry and scaly but usually exudes an abundant serum Ultimately a deep cancer develops.

In the differential diagnosis the main things to consider are eczemas complicating pregnancy or lactation, and scabies. In these discusses the course is more acute, the trouble is usually bilateral and

the patient is usually under 40. There are five theories as to the etiology of the duease (1) that it is not related to cancer at all, (2) that it is caused by occulan, (3) that it is caused by occulan, (3) that it is due to irritation from without, (4) that it arises from irritation of abnormal secretion by the eshaceous glands, (5) that it is a melanoblastoma. The conclusions to the control of the irritant is found in the breast isself, namely, an alteration of secretion in the involuting acun

The only treatment which proves satisfactory is early and complete removal of the breast Local treatment has been abandoned as worthless X rays have a few cures to their credit J II SKILES

Zybell: Clinical Picture and Treatment of Empyema in Infants (Zur klunk und Therapie des Pleuraempyoms bei Sanghirgen) Monaticht f. Ainderh., 1912, 21 By Surg., Gynec & Obst

This consists in an exhaustive treatise on the charcal findings and treatment of empyems in infants, a condition which has not received its proper attention heretofore. Only the more saltent features attention to the fact that the more saltent features attention to the fact that empyems it very frequent it followed by pus infections of other serous membranes. For the diagnosis a pleural puncture is of the greatest value. This should be done, however, not with a small needle, but with one with a large barrel, so that the thick creamy puss which is so

frequently present can be obtained. Not every case of effusion into the pleural cavity in infants is a case of empyema. Many cases which give the signs of fluid in the pleural cavity in these infants are secondary to pneumonias, and frequently the fluid is of a serious nature. One should be careful but to be that the hasty in making diagnosis, as a second line is a very

frequent occurrence, very difficult to differentiate.
The paper consists in the report of 22 cases, in 15 of which complications existed 107 cases an abscers, preumons twice, a purulent or fibrinous periarditis with a dry perisplentist, 2 cases of metastatic purulent arthritis, 3 cases of purulent infection of the urnary tract, once an infection of the mavel region, 4 cases of by otherma and 4 cases of fourths media, and 5 cases of pyoderma and

deen-lying abscesses of the skin, The pus of 18 or 20 cases was examined with positive results. Of these, 14 showed an encapsulated diplococcus, evidently the pneumococcus, 3 the streptococcus, and one a mixed infection of staphylococcus and streptococcus One empyema in this report was found at autopsy In the others, rib resection was twice resorted to, five times they were drained without rib resection one time pleural puncture with washing of the cavity, and 13 times simple pleural puncture The simple pleural puncture was carried out in most cases quite frequently, in one case as often as 21 times This case, by the way, was followed by recovery Both cases with rib resection died Of the 5 cases in which puncture with draininge was made, one alone lived. The case which was treated by puncture and washing of the cavity died Of the 13 cases which were treated by simple puncture, 2 died within two hours after the puncture, which was done for diagnostic purposes Of the other 11, 6 survived Lybell, therefore, inclines very strongly to the treatment of empyemas in infants by the use of simple puncture. He feels that the dangers from other methods of treatment he in the shock from the operation, the entrance of air into the pleural cavity, which has a much more serious effect in infants than in adults, because of the fact that the accessory muscles of respiration cannot be used in these children, since the chest has proportionately a much greater antero posterior diameter than in the adult, the sternum being held Respiration, therefore, is principally diaphragmatic. This necessitates an increased rapidity of respiration rather than a deepened respiration. which could be accomplished with the aid of the thoracic type of breathing C G GRULEE

Jacob An Operation on the Posterior Mediastinum by the Wide Transpleural Route; Cure (Un cas d'intervention sur le médiastin postfeueur par la voie transpleurale large, guérison) Bull et mém Soc de Chir de Par , toil, xxxvii, 1204, By Journal de Chrurgie

Operations within the posterior mediastinum by the transpleural route are not very numerous, and the choice of this route of access as such is strongly debated, and even condemned by a great many surgeons, for the reason that a "wide open" pneumothorax is a very serious matter. So it is very interesting to note the good result which Jacob has obtained in this method of surgery

On June 23, 1911, at Maroc, a soldier was seriously wounded by a rifle-shot The ball entered at the level of the posterior border of the right axilla and did not leave the body. After grave unexpected symptoms, particularly those of a pulmonary lesion, which necessitated confinement for two months in the hospitals of Maroc, the patient was sent home to I rance, convalescent. He finally came back to Maroc, took part in the new operations of the war and returned to France in 1911, emaciated, tired, and complaining of pains in the thorax, in the kidneys, and in the lower limbs, also declaring that he was incapable of doing continuous work attributed all these troubles to the presence of the ball, which it had never been possible to locate On January 10, 1012 he entered the hospital \al de-Grace and demanded that we look for the ball and extricate it

The radiograph showed it in the middle of the posterior mediastinum in the region occupied by the thorace aorta, the crophagus the greater azygos, and the posterior surface of the heart. Its position, a hitle to the left of the median line, suggested that it was lodged between the aorta and the crophagus.

To gain access Jacob chose the left transpleural route, which he reached by a long but narrow costal trap door flap with a superior hinge that included the minth and tenth ribs. There was no pleuro pulmonary adhesion the lung withdrawing completely upon its hilum as soon as the pleural cavity was opened. No grave accident of any kind ensued There was only a slight apnora which passed away when traction was exercised upon the lung by means of a forceps To discover the projectile it was necessary, after having pulled the lung upward and the pericardium and the heart forward, to make an incision in the mediastinal pleura, about 8 cm in length, directly in front of where it comes in contact with the aorta Then, after having moved the heart and the resophagus forward Jacob introduced his index finger and the middle finger into the medias tinum It was only then that he felt the ball with the tip of his finger a little to the right of the right branch of the aorta, toward the vertebral column He was successful in extracting it There was no hamorrhage and the wound was closed without dramage

The after effects of the operation were simple. There was nothing more serious than a slight serohamatic extra assition, which necessitated opening the wound on the tenth day and draining the pleura for a few days. To-day the patient declares himself relieved of all his complaints.

In conclusion Jacob insists, first of all, upon the readiness with which he was able to explore the posterior mediastinum, despite a very small costal tran-door flap (comprising only two ribs) In the

second place he insists that a pneumothorax may be quite bengn, even though the incision is wide open for a half hour I Dunovi

Weiss Complications Liable in Treatment with Artificial Pneumothorax Bett 2 Klin d Tubert, Warzburg, 1912, xxvv, Sept

By Surg, Gynec & Obst Weiss endorses the amplification of the indica-

tions for this procedure to cases of medium severity Brauer's method of incision was used puncture was employed only when an exudate was present Before puncturing the costal pleura a little cocaine is applied to the region to avoid shock To avoid danger of lung injury in the presence of a thickened pleura, Weiss advises to pick up the pleura with forceps before perforation. Injury to the lung can occur when very firm adhesions exist Veller reports a fistula of the lung following injury The danger of sputum aspiration into the sound lung is not great Schmidt and Totleurus mention Weiss never exceeds a litre of gas for injection Recently smaller quantities have been used when alarming phenomena which could be attributed to an excessive quantity of gas were present in a patient Withdrawal of 300 cm brought marked improve-The first insufflation serves the purpose of separating the pleural lavers and of guarding against lung injury during subsequent insuffations Subsequent insufflations will make the pneumothorax complete \(\lambda\) ray examination is made before and after each secondary insufflation. The lung should not be forcibly compressed by the gas The amount of gas used has to be regulated for the individual Complications are apt to arise where adhesions exist. One patient showed alarming symptoms after Weiss had compressed the lower and middle lobe of the right lung. The upper lobe became detailed the apex was still adherent pressure was employed to loosen the apex (3 to 8 mm He) Two days later violent pains occurred over upper sternum, pain on swallowing, cyanosis, fre quent pulse and respiration were noted. It was supposed that the apex had been detached, immediate X ray confirmed this and likewise an over stretching of the mediastinum The removal of 200 ccm of nitrogen was followed by a disappearance of all symptoms. The increased pressure began to exert its influence upon the mediastinum only after detachment of the apex Injury of a blood vessel by the needle is indicated by a gradual progressive rise of the manameter. The needle is best with drawn Weiss observed a case of gasembolism, one of the most serious accidents Brauer reports 4 cases

Emphysema occurs in many patients, usually it can be avoided with proper technique A small amount of N will collect under sin when patient oroughs during insuffiction. Deep sutures are not always successful, especially in debilitated patients with floord musculature. A rigid costal pleura which does not contract at once after insuffiction may lead to emphysema formation. Evudation

occurs in about 50 per cent of the cases, a great majority of which is tuberculous

The course is exceedingly variable Many of the most incipient cases show no symptoms and clear un in a few weeks Some cases run the course of a febrile pleuritis Abdominal complaints seemed to precede the onset of exudation The character of the exudate was always serous, or sanguinoserous in the beginning, later, after the fever had run its course, they became thicker This caused no change in symptoms or virulence Weiss did not observe any cases of tuberculous empyema All cases without mechanical symptoms were treated expectantly In case aspiration is necessary, nitrogen is substituted for the fluid removed Hæmorrhages are usually the result of lung injury, occasionally they occur spontaneously in partially decompressed lungs

Weiss reports a case in a patient with a pneumothorax which had occurred spontaneously The pneumothorax was maintained artificially by in sufflation X-ray showed the lung much contracted beside the spinal column During the night patient developed a severe hamorrhage, and while trying to breathe deeply he aspirated much blood into the sound lung and died of asphyxia. The lung con tained many small cavities which had not been compressed Nevertheless Weiss sees in severe hamorrhages a direct indication for insufflation He mentions 2 cases in which uncontrollable hæmorrhages were checked by insuffiction Phthisis of a pneumonic character is not suited to pneumo thorax treatment (Forlanini) Weiss reports 5 cases which were treated by insufflation, in 4 the disease spread to the other lung and led to a fatal issue Initial results were good in 3 of these patients He does not endorse Forlanini's statement absolutely, as the chief object of pneumothorax therapy is to cure advanced cases A case of double pneumotho rax following right-sided insufflation, and probably due to a giving way of a weak spot in the anterior mediastinum, is cited as unique. The left-sided pneumothorax was diagnosed by X-ray. With drawal of nitrogen from right pleural cavity, The heart bears the transposition occa stoned by the pneumothorax well as a rule Alarming symptoms occurred in one case where bands might have occasioned a circulatory obstruction Besides lateral displacement the heart is rotated and pushed away from the anterior chest wall Occasionally murmurs are heard after the operation which were not present before In one of his patients Weiss heard a persistent diastolic murmur over the aorta Slight slowing of the pulse has been observed at times after the operation Dyspeptic symptoms are frequent and attributed to pressure of the diaphragm upon the liver and stomach Intestinal involvement is a contraindication to the operation In cases of tuberculosis complicating diabetes, the state of the other lung has to be ascertained with the greatest of care before attempting insufflation In a case of tuberculosis with hæmorrhagic nephritis, insufflation was followed

by good results. The nephtitis disappeared within a few weeks and was probably due to toxins Weiss points to the fact that the pneumothorax leads to contracting processes, not only in the diseased but also in the sound portions of the affected lung, and thus to incomplete re-expansion. Hence the indications for its use should be more precisely defined. E C RIFBEL

TRACHEA AND LUNGS

Ducume and Boularen: Should We Suture Wounds of the Laryngotracheal Duct? (Faut if suturer les plaies du conduit laryngo trachéal?) Arch gen de Chir , 1912, v1, 1059

By Journal de Charurme

Ducuing and Boularen report a case of a man 54 years of age who, in an attempt at suicide with a pocket knife, had wounded himself in the larvneotracheal duct The cutaneous gash was sutured 1 cm below the hyord bone. It was a narrow trans verse cut, 3 cm wide Between the lips of the wound protruded a clot of blood. Air escaped only when the patient made an effort or had a fit of coughing The patient was pale and agitated, his pulse was weak and rapid (110 beats to the minute)

Immediate intervention After disinfection of the region with tincture of jodine the wound was enlarged When the clot of blood which obstructed the gap in the laryngotracheal duct was removed. a shower of blood immediately splashed over the The inferior larvngeal artery was tamponed and clamped with forceps

It was found that the wound pierced the whole of the thyroid membrane and the left lateral wall of the pharynx, as far as the spinal column. The epiglottis was completely cut, near the thyro-epiglottic ligament. The omosternal and thyrohyoid muscles were likewise cut on both sides. The large vessels of the neck were intact

A whip stitch suture of silk was taken in the lateral wall of the pharynx Then the byold bone and the thyroid cartilage were brought together by means of another whip stitch suture; the epiglottis was repaired and the whip-stitch continued as far as the termination of the right cornu of the hyoid bone A tent was placed and the thyrosternal and omohy oid muscles fastened upon this first plane by means of a catgut suture Another tent was then placed and the skin sutured with horsehair

The results of the operation were excellent. The patient was fed by a sound for four days The tents were removed two days after the operation, on the eighth day the wound had nearly healed. But pneumonia developed within six days.

Fourteen days after the operation, following a

fit of coughing, the patient found that his dressing was wet with blood. The wound was opened and a small artery which was bleeding deep was clamped with forceps Healing occurred after a slight superficial suppuration,

This case shows that, contrary to the opinion of

certain authors, suture of the lary ngotracheal duct yields very good results. It also avoids the production of fistule and subsequent stenoves

1 DEMONT

Rauzier, Roger, and Baumel: Hydatid Cyst of the Apex of the Lung (Kyste hydatique du sommet du poumon) Montgeller Med 1911, 1212, 1222, 1222 By Journal de Chrurgie

The authors report the case of a woman 56 years of age, who entered the hospital with pains in the left shoulder and the left breast, which had begun about a month and a half before. Since then the patient coughed and expectorated a mucopurulent sputum, on four or five occasions during the first weeks of the disease the sputum expectorated had also been distinctly bloody I aploration of the pulmonary apices revealed duliness on the left and completely obscured respiration, though no ab normal murmurs were observed. This suggested that it might be an acutely developed bacillary infiltration of the apex of the lung. But the absence of koch's bacillus from the sputum required that this diagnosis be rejected in favor of encysted Therefore an pleurist of the pulmonary apex exploratory puncture was decided upon

This puncture enabled the authors to withdraw some cubic centimeters of a clear biquid which contained a number of degenerated leucocytes. The puncture was followed by grave symptoms—a very decided dyspinera crepitations of pulmonary ordems sudden faulture of the heart with a tendency to collapse, the printent also yomited about 400

cubic centimeters

This whole picture recalled the phenomens of intoxication which follow puncture of hydrid cysts and have been attributed either to the toxicity of the hydric liquid or to phenomena of anaphylaxis (Chauffard).

The clinical evidence then inclined toward diag noss of hydridic syst rather than toward that of pleurisy. The absence of the inclinional pleurisy is the chinococcus hooklets, both from hydridic systems of the planta of the chinococcus hooklets, both from did not divert diagnosis from hydridic evit the did not divert diagnosis from hydridic evit from the puncture was interpreted not as a sign of pleural inflammation but as a sign of the passize of the cyst mate but contained the puncture was interpreted in the passize of the cyst mate but contained by examination of the blood was more conclusive.

In the first place estimphilia was very much in evidence (3 per cut) and afterwards Winnberg sero reaction was decidedly positive. We may add that radioscopy and radiography which could not be carried out until a few days before the intervention, showed very clearly an opacity of the whole left lung (a secondary invasing of the whole left lung (a secondary invasing principar), intervention of the lung there was a zone somewhat more clear and the size of a mandatin orange.

After the puncture the patient expectorated, at first muco-pus and then a great deal of pus, the pus being very fettid. I ever persisted without inter-ruption, but showed a number of wide oscillations. Dyspman persailed, the heart was weak, and cachesia progressive. Professor largue decided to intervene.

General anaethesia was obtained with kelene after an injection of pantopon. A long incision was made, which embraced the left breast in its con-As soon as the bistoury reached the deeper levels, and before the pleura had been opened, a copious flood of thick, greenish, horribly feetid pus broke forth. After a resection of three ribs. to an extent of 6 to 8 cm , the orifice of communication with the pleura was enlarged, another considerable quantity of pus flowed out; then appeared a number of perfectly characteristic hydatid vesicles The hand could easily extract a large hydatid pocket, which measured 8 cm in length and had a thick wall There were also a large number of daughter vesicles which varied in size from that of a Lidney bean to the size of a large nut. These daughter vesicles appeared withered and of a slightly greenish tint, the color being due to the pus in which they were bathed. The cavity occupied by the cyst extended from the apex of the lung to the pericardium. The latter itself had been altered by the action of the pus an orifice through which a finger could be introduced enabled one to feel the heartsounds very distinctly. The patient succumbed an hour after the intervention J DUNONT

HEART AND VASCULAR SYSTEM

Von Walzel: Pericardotomy. Mat a d Gren feb d Med u Chir., 1912, xxv., 264 By Surg., Gynec. & Obst

The author reports 3 cases of pericardotomy performed by von Liselsberg and mentions the statistics of Reschard of 12 cases mostly of simple incisions The collecin the fourth or fifth intercostal space tion of Venus 1908 contains 87 cases. In 36 of these cases rib or cartilage resections were performed Von Walzel considers as indications for interference symptoms of cardiac and pulmonary compression and marked increase in exudations. He mentions Curschmann s ideas as authoritative Curschmann maintained that in exudative pericarditis, the heart is in contact with the anterior chest wall and pointed to the danger of its injury during paracentesis. There is danger of wounding a large coronary vessel (A Frankel) Valvular disease and secondary hypertrophy of the left ventricle increase the danger of injury to the heart W Alexander suggests inda tion of the pericardium with air to prevent concretio Injury of the pleura is hard to avoid Lundmaras' investigations show that the nortion of pericardium which is not covered by pleura isvery small and variable Von Walzel cites as an advantage of resection the possibility of complete evacuation. Remaining amounts of fluid may favor the formation of adhesions. In all cases, von Walzel favors resection rather than paracentesis or simple moision, especially in all purulent scrofibrinous accumulations.

Case 1 Pericarditis followed a stab wound, which healed without treatment A month later paracentesis was done, and repeated three times. This was followed by a radical operation and recovery

Pus showed bacterium coli

CASE 2 A child of 6 years, almost moribund, operation under local anæsthesia, resection of the cartilage of the fifth rib, drainage with two rubber tubes. Pus showed streptococcus Recovery

CASE 3 Man, 41 years old Local anæsthesia Incision 7 cm long, parallel to fifth rib to sternum, subsequently positive pressure and ether. On opening the pericardium a large amount of serous fluid guished out. Sterile on culture. Recovery

The pleura could be avoided in all cases The fold is usually surrounded by fath; tissue and connected with the transverse muscles of the thorax All structures can be pulled aside. Fixation of the free edges of the pencardial incision to the muscles is advisable to protect the pleural cavity from its constitution. Drainage tubes should be changed dually

E C RIEBEL

Boothby Note on Intrathoracic Surgery, Division and Circular Suture of the Thoracic Aorta. Ann Surg, Phila 1912, lv1, 402 By Surg, Gynec & Obst

The author uses an intercostal incision from the sternum to the head of the rib posteriorly, cutting the erector spinal muscle on the left side catefully freeing the aorta from the surrounding structures, it is delivered, cut between vessel clamps, and reunited by circular suture with No 200 cotton sterilized in white liquid petrolatum. He urges careful attention to the details of technique for a successful result, such as avoidance of overdistention of the lung in the smaller animals in the intratracheal insufflation exclusion of skin edges from the wound by silk strips, careful dissection of the aorta to avoid injury of thoracic duct from the opening of the opposite pleural cavity, and, finally, the importance of avoiding too great tension on the stay sutures in the vessel wall. He reports six operations, with four recoveries V C DAVID

PHARYNX AND ŒSOPHAGUS

Zeit: Congenital Atresia of Œsophagus with Œsophago-Tracheal Fistula J M Research, 1912, xxvii, 45 By Surg , Gynec & Obst

The author advances a new hypothesis as to the etiology of this condition, based upon a case which, unlike most cases of imperforation of the cesophagus with cesophago tracheal fistula found in the literature, showed no other associated malformations

According to this hypothesis, both the atresia and

the fistula are due to one factor, faulty development—
a faulty embryonic anlage of the lower limbs of
the lateral ridges which in embryos of three weeks
begin to separate the trachea from the exophagus,
starting from the dorsal instead of the ventral side
of the foregut, the exophagus becoming closed
above the bifurcation of the traches, leaving a large
opening from the lower end of the ventral or tracheal
tube into the lower portion of the exophagus. This,
later on, by clongation, forms a narrow sit, establater on, by clongation, forms a narrow sit, estabtraches above its bifurcation and the lower portion
of the exophagus, the lower limbs of the lateral
ridges forming the atrease of the upper portion of the
exophagus, which then becomes a blind pouch

The hypothesis conforms to the embryology of the parts, excludes inflammatory processes, and determines the causal element to account by one factor for the frequency and the great uniformity of this combination of atress and is tulk in so many cases.

Guisez Diagnosis and Treatment of Cicatricial Stricture of the Esophagus (Diagnose et trattement des rétréchssements cicatricielle de l'eso phage) 25th Cong d l'Ass fran de Chir, 1972 By Journal de Churugie

This pathological condition, due to a permanent alteration of the exophageal tube, is characterized by the cicatrical degeneration of its wall, giving birth to various disturbances of gradual evolution and leading to the complete obliteration of the immen of the organ After cancer, it is the most frequent affection of the esophagus.

Diagnosis Cases of traumatic cicatrical lesions due to caustics, hot fluids, wounds, or foreign bodies, are easy to diagnose. There are cases in which the history is not of much assistance. The patient conceals important facts (suicidal attempts, medicolegal features). In some cases, the causative factors have passed unnoticed.

Gsophageal stenous may be of a medical nature, the circatnes of a round uleer the extendance of uleeration occurring during infectious fever. Here the teloogical diagnosis as difficult. Symbias of the essophagus is very rare. Guimmata do not like the essophagus is very rare. Guimmata do not like the essophagus is Pracefore circatneal essophageal lesions of symbilitie origin are of exceptional occurrence. Guisse has observed one case involving the upper surface of the essophagus and coexisting with centreal reliable of the disposage of the pharyon.

The assophagoscope has shoun the existence of a group of centracial stenoses of inflammatory origin located either at the mouth of the esophague or an extended the cardia. In these cases one often hestias is make a diagnosis, thinking the condition may be due to spasm, to compression from without, or to cancer, if the patient be aged. They are almost all of spasmodic origin, the spasm causing stenosis and, secondarily, exophaguis. Chronic inflammation causes fibroid centracial lesions in the wall, and these, like all other traumatic stenoses, lead sooner of later to complete stenoses.

The clinical signs, progressive dysphagia, vomiting, regurgitation, and salivation, are not sufficient to establish a diagnosis, as they are present in all forms of grave resophageal strictures Physical signs, that is the passage of bougies, and the X-rays give precise information as to the existence and the location of the stenosis but none as to its nature The ersophagoscope shows the lesions and gives exact information as to the nature of the ersophageal stenosis Cicatricial stenoses in particular present to the experienced eye a very bright fibrous, characteristic appearance and upon inspection one can easily differentiate this type of stenosis from that due to compression epithelioma, or spasm. In cases of doubt, the diagnosis can be verified by the microscorical examination of a fragment of the mucosa removed from the region bordering the stricture With the exaphagoscope one locates the exact seat of the stenosis its chiracteristics its caliber the nature of the dilatations or secondary diverticuly above the stenosis - in fact all conditions it is important to determine from the prognostic and therapeutic standpoint

I form the therapeutic standpoint we must deter mine the degree of the stenosis and its anatomical form, and whether it is passable or impassable to the exploring bougie. If the stenosis is impressable from above it may or may not be possible to dilate the stricture For dilatation one should select soft ohyary bougies (rubber or gum clastic bougies are preferable) All rigid instruments must be done away with, especially whalebone bougies a boule

They have caused many accidents The stricture may be of small cubber and not admit of dilatation with a soft bough guided only by the hand With the resophagoscope however, it is nearly always possible to find the remains of the ersophageal lumen which is usually eccentric and unless the bought is guided by the eye, it will lose itself in the culs de sac above the stenosis lumen once found introduce a filiform bought which acts as a key to subsequent dilatation. At least for the first few treatments dilutation must be endo-It should be done with rubber or gum elastic olivary boughts. By leaving the boughts in place for several hours during the first and subsequent treatments the dilatation of the stricture is very much facilitated. If the stricture is easily accessible, as an adjunct to the treatment with dilatation one can use the laminaria tents. Some stenoses of the earths can be dilated by the aid of balloops such as Cottstein's balloon The croopha goscope has reduced markedly the number of strictures formerly considered impassable. In strictures not dilutable by these simple maneuvers, internal esophagotom, under the guidance of the in short valvular strictures Speaking generally, it is better to employ circular electrolysis Llectrol vsis has a dissolving and resolving action on cicatricial tissue, and can cure definitely some stenoses in which the infiltration and sclerosis are not deep

The stenosis may be impassable from above, even with the aid of the endoscope. Then, after a preliminary gastrostomy, one must resort to retrograde catheterization Retrograde catheterization can be tried with or without resonhagoscopy after preliminary dilatation of the mouth of the gastros tomy In this type of stricture gastrostomy with a large opening into the stomach is the method of choice for retrograde catheterization. In all of these cases, the opening into the stomach is retained for the purpose of feeding the patient. It is a safety valve and provides a means of feeding the patient when alimentation from above is for one reason or another impossible. The esophagus is placed at rest, and thus a sophagitis the principal cause of spasm is combated

When the cesophagus is totally impassable from above down or from below up (an unusual condition) one must resort to external surgical methods Here gastrostoms is again the operation of choice In late years curative operations have received consideration - external a sophagotomy resophagectomy (which has been effective only in the cervical Some surgeons have devised ingenious methods of treatment - asophageal gastrostomy, the implantation of the er-ophagus in a fold of the stomach which method is practicable only in stenoses situated low down plastic operations, of which resophago duodeno gastrostomy, with the creation of an resophageal canal is the most noteworthy example. These are serious operations and difficult ones to bring to a successful issue

Therefore when dilatation from above, aided by the endoscope or by means of retrograde catheterization is not feasible simple gastrostomy will prolong life and this is the operation which should be performed. Only a small very number of a sophageal strictures are impresable from above down or from below up. In studying the reported cases, one comes to the conclusion that many serious operations might have been avoided if dilatation under the guidance of the exsophagoscope had been tried It succeeds in 95 per cent of the cases If this method fails one should resort to retrograde catheterization facilitated by gastrostomy with a large

stomachic opening

Is there a method which permits of direct action upon the custricial tissues? According to the author, circular electrolysis exerts a distinct regressive influence upon cicatricial tissue

Largues has had in to your it came of conducgeal cicatricial stenosis o followed the ingestion of be two were produced by the ingestion of caustic potash From this series Forgues evolves the following conclusions

In cases of grave cicatricial stenosis gastrostomy is the operation of choice. When the nationt has reached the stage of malnutrition gastrostomy is an emergency operation. It secures rest to the ersophagus and tends to suppress spasms and to quiet active inflammatory phenomena. Three of Forgues' cases, in which the strictures were impassable to the finest bougies, became permeable after gastrostomy. Gastrostomy can be practiced under local anexthesia I it is of rayid execution and, except in exhausted patients, is well borne. It is essential that the opening into the stomach be continent.

It is well to keep these patients under observation and to find out in what proportion of cases one can maintain the results secured. There are some old castrical strictures which cannot be perma neutly dilated with even the newer methods. In following 8 of his cases, Forgues has found that 3 died of tuberculosis — two, 3 years after the opera tion, the other of years after. In only 3 has he obtained permanent results, and in these the treatof these patients, a young woman gastrectomized 13 years ago, treatment was discontinued only one year ago.

Delagénière states that despite the progress of esophagoscopy, 8 per cent of esophageal cicatricial strictures are still impassable and belong to the domain of surgery He reports two new cases to show the value of the endogastric route for retro grade catheterization. In one patient a case of acute stricture Delagénière, after opening the stomach and practicing retrograde catheterization. observed serious lesions of the stomach, and he performed a jejunostomy The other patient had a chronic stricture Retrograde catheterization was at first impracticable, but a small incision in the cicatricial nodule made it possible. By incising the stomach, one is enabled to explore the mucosa, to act upon the cardiac onfice, and can then make either a stomachic opening or a jejunal opening The esophagus is put to rest while the stricture is being gradually dilated Rest is an indispensable factor in dilatation of the ecophagus

The technique which Delageniere employs is as follows A pillow is placed beneath the thorax of the patient and a high supraumbilical incision is made The stomach is incised the same direction as the abdominal wall and as close as possible to the cardia, traction being made upon the margins of the stomach Palpation of cardia, and by the aid of retractors this orifice is exposed to sight. This is followed either by retrograde catheterization or by puncture or division of the stricture Closure of the stomach and creation of a stomachic or jejunal mouth As to consecutive treatment, practice a direct progressive dilatation, or in certain cases, retrograde, if one leaves a thread passing through the mouth, the resophagus, and the stomachic mouth

Jacques draws attention to a method of treatment for which he finds frequent indications. Many of his patients were in such a condition of inantion that a prompt solution of the problem was necessary, and the degree of stricture forbade the passage of a sound of sufficient caliber to secure alimentation In such cases, under the control of sight and with the aid of addreno occamination, he introduces in the lumen of the esophageal tube a semi-rigid bougle of the smallest caliber, leaves it in place, and ties it to one of the teeth of the superior maxilla. However tight the bouge is held by the structure at first, the fibroid tissue softens after long contact with it, and in irom ax to twelve hours the degliution of fluids becomes possible around the catheter left in nosition.

This can be left in the esophagus for two or three This can be left in the esophagus for two or three area. This continual contact cases a greater of the continual contact cases are contact cases. The continual case is a greater of the continual case of the contact cases are contact cases and cases are contact cases. The contact cases are cases are cases are cases and cases are cases are cases and cases are cases are cases and cases are cases are cases are cases and cases are cases are cases are cases are cases and cases are ca

Duvergey has had to cases of permeable esophageal strictures treated by simple gradual dilatation with or without endoscopy He believes that gradual temporary dilatation, especially when associated with œsophagoscopy, is an excellent treatment for strictures of the cesophagus, but employed alone without the aid of electrolysis, it must be continued for many years If dilatation is discontinued too early, the stricture that is in process of recovery recurs Dilatation must be done with great care and gentleness It should be done usually with the aid of the endoscope The latter is of diagnostic and therapeutic value subjected to simple dilatation demand that bougies be passed in the esophagus for many years This is one of the factors which obligate the surgeon to supplement dilatation by modern methods of electrolysis

Rout beheves in gastrostomy. Geophagoscopy easy for the specialist, proves very difficult for the surgeon and especially for the practitioner unlambiar with its technique. Gastrostomy is an operation of easy execution and of absolute being anney when done under local anesthesia. Retrograde catheterism is child's play compared to catherism from above down. Roux presented the photograph of a young boy on whom he performed an exophago jouno gastrostomy for an exophagoal stricture accompanied by alarming and reactionary mucusal after a pain, explained of blood-stained mucusal after a pain, explained of blood-stained mucusal stricture.

Frolch has observed 13 cases of usophageal stenous, ro in adults He confirms what Forgues states as to the value of gastrostomy, which alone often renders permeable to bouges, stenoes which previous to its performance were impassible previous to its performance were impassible obtained good results as the first performance were impassible obtained good results as the first performance were impassible scale of the performance with the properties of the performance of the performance with the performance in the performance

inal muscle. In fact, Kehr himself his abundanced the undulated incision, he now incises vertically the lines alba, in the equivative notch, and supplements this by a complete transverse dission of the rectus muscle. After having practiced upon the bilary tract the indicated operation, it is well-billing drumage and closing the abdominist wall to seek the appendix and to remove it I want to the appendix and to remove it I have a low position, is adherent and his ancient of the place; but if removal is deemed necessity at its easily accomplished through this incision.

Drainage will be established at the external angle of the incision. Gosset always drains even after a simple uncomplicated cholecy stectomy with closure of the custic duct, because the lighture of the custic duct may also and then drunger is a precious helpalso the denuded hepatic surface, formerly covered by the gall bladder may give rise to an outflow of bile for the first 48 hours, and drainage enables this bile coming directly from the liver to escape ex ternally After operation upon the infected common bile duct, drainage is essential The drainage tube is put directly into the hepatic duct and gauze wicks are placed in contact with the opening in the common duct Gosset sutures the abdominal wall almost completely. This abdominal closure is in two layers. U shaped sutures approximate the deep sheath of the rectus, interrupted including the muscular fibers and the anterior sheath of the rectus, cutancous stitches

In four cases of cholecystectomy Cunéo made use of the transverse faction. This incusion gives ample room. In easy cases one can often avoid cutting the rectus muscle by settically dividing the outer border of the anterior sheath of the rettus and then retracting the muscular fibers inwardly. The transverse incusion can be employed in a large multer of abdomnal operations.

nephrectom). J Drawer

Fichbeln: A Contribution to the Bacteriology of
Peritonitis, with Special Reference to Pri-

mary Peritonitie. Am J M Sciences 1912, cxlw, 502 By Surg, Gynec & Obst

This paper is nitten with two purposes as the object. (1) to discuss the records in the pathological bloratory of Rush Medical College, of bacteria object extensions made of material obtained from the peritonical cavity after death from peritonic and (2) to compare the recording of peritonic that other reports on the Object of the College of the Col

viz, primary, exogenous, and cause as a result of an Primary peritonitis occurs as a result of an infectious focus elsewhere in the body, the infecting organism being brought by the blood or lymph

stream to the peritoneum-

I rogenous peritoritis occurs as a result of wound infection, gunshot, abortion with septic instruments etc., and as a sequence to laparotomy.

I ndogenous peritoritis occurs as a result of an organism coming from foci in relation to the pertoneal cavity, the most common leing various affections of the appendix. Further division is

made into sure and mixed types. In these studies various organisms were found in 5 mbasss such as colon bacillus with bacillus procyanius. The colon bacillus was found 183 times in 142 cases commonly with other infections but it may occur alone, and 152 estedom if extra a blood infection thereby not giving rise to a primary personnius. Staphylococus were found 163 times in the personnius. Staphylococus were found 163 times in a shown to be relatively of great importance. The bacillus musous is also shown to be an important

factor The majority of cases of peritonits are endogenous and are due to a combination of colon batch, the colon of the colon of the colon of the colon of the case of the original focus is the female organs of generation being next in importance. Some observers have pointed out a close relation of anisoton organisms to appendicuts, and the author advocates mixing such determinaand the author advocates mixing such determina-

The gonococcus has not been demonstrated culturally in post mortem periloreal fluids, probably due to lack of proper development in culturating methods or because no effort has been made Primary peritonities is more common than is ordinarily supposed.

In this report 25 per cent of all cases are of the primary type and practically all cases showed a lowered resistance due to some chronic condition, as cirrhosis of the liver tonsilitis maraemus rfc. It would seem that the word "diopathic" could be entirely dispensed with in regard to pertionitis

eritonitis H A Porrs

Lecene Prophylaxis of Peritoneal Infections in Gynecological Operations (Prophylaxie del infection péritonéale opératoire en gynécologie) Ann d Gyn e d'Ohi, 1513, lx, 513

By Journal de Churuge Bacteriologically and theoretically, operative infections of the pertioneum have two different origins they mit be expensive original they mit be expensive original they mit be expensive material, the compresses, they may be endogenous, coming from the atmosphere from the surgeon from his assistants, they may be endogenous, coming from the time of the value of value of the value of value of the value of the value of value

(a) Fight against infection (1) Exogenous infec tion. Atmospheric infection is unavoidable. It can be lessened by spraying operating rooms previous to operations, with oxygenated water or with steam vapor under pressure. Instruments compresses and suture material must be thoroughly sterilized The most important progress recently made is the use of sterilized caoutchour rubber gloves are a safeguard against the ilways imporfectly sterilized hands of the surgeon Before putting on the gloves the hands should be surgically chansed as thoroughly as possible (2) Endogenous infection. The surest method of disinfecting the skin and vagina is by mopping the surface with tincture of jodine or jodated chloroform There must be no preliminary washing The application of a sterilized rubber varnish that is removed with benzine his not become popular in I rance Hot air disinfection of the cervix uters, its preliminary suture in slough ing fibroids, and closure of the vagina by means of right angle forceps are all methods that are often indicated

Accidental opening of the intestine necessitates suturing and mopping of the contaminated pertoneal surface. Antiseptics should not be used in

the peritoneal cavity

(b) How shall we preserve nature's local means of defense? It is important to keep intact the peri toncal tendothelium to remove all extravasated fluids, all necrotic tissue and to isolate infected zones. To realize this, the patient should be placed in suitable posture (Trendelenburg) so that the surgeon may operate with ease Use a large incision and good retractors and perform the operation under the control of sight, blind enucleation is dangerous The abdominal cavity should be well protected and the field of operation should be limited. For protection, wet, warm compresses are preferable to dry. All antiseptic applications to the peritoneum are harmful and should be avoided. Rapid operat. ing and the selection of that technique which is anatomically appropriate to the case at hand are By an appropriate anatomical opera tion, one will often avoid supturing pus tubes Bleeding points should be ligated and large

pedicles should be a unded. For harmostass of the bleding surface, persionation seems preferable to thermo-cauternation. Denuded surfaces and pedices should be covered with persioneum. This imminutes the tendency toward intestinal adhesions, post-operative occlusions, and secondary sero bloody occung, and keeps septic inoculation from prediding to the cellular issue. Subpersioneal its defense against infection. Drainage is not always necessary.

In the absence of septic inoculation, the peritoneal cavity should be closed without drainage (cysts of the ovary, sample fibromyomata, non ruptured gestation). The presence of an ascitic or bloody effusion, incompletely removed, is not an indication for drainage, as the drains are quickly surrounded

with adhesions and they no longer drain the pertoneal cavity. They serve only to guide outward secretions coming from a limited area of the pertoneum and to extraperitonealize the drained region

In the decortication of tumors where hemostasis is soften insufficient, it was customary for a time to tampon with Miculicz drain. Now, as a matter of fact the custom is to peritonize as much as possible denuded areas and to drain with a rubber tube.

Drainage is needless for a simple vaginal section, for an intestinal rupture which has been carefully sutured. It is indispensable in pus collections, in

sloughing and in infected fibroids

How shall we drain? The hollow cylindrical (rubber or metal) drain does well for liquids, but poorly or insufficiently isolates the potition of the peritoneum drained Gauze drains liquids poorly, but isolates well that portion of the peritoneal cavity with which it is in contact

Abdominal drainage is more asoptic but its asepsis of short duration. At the end of three or four days skin microbes infect the channels. It has the disadvantage of not being dependent. It does not permit complete exclusion at the point of drainage It predisposes to eventration if kept up for a few days.

Vaginal drainage has the disadvantage that it leads into a cavity the perminent assess of which cannot be assured. It is dependent. When associated with transverse walling-off, it permits complete exclusion of the true pelvis. Whenever applicable, vaginal drainage should be used in preference to abdominal.

(c) Can we increase the resistance of the pertinoneum to infection? Interesting experiments have been made in this connection, but nothing definite can be stated. The following methods have been used Normal salt solution, heated horse serum, subcutaneous ungections of codom nuclemate, intraperstoneal injections of camphorated oil, injections of pure crygen, and aërothermotherapy. Each method has advantages and inconveniences. None has given constant results.

Arnaud: Intraperitoneal Injection of Ozygen in the Treatment of Acute Diffuse Peritonitis (L'injection intraperitonéale d'ovygène dans le traitement des péritonities diffuses sigués) Lyon Chr., 1912, ym., 411 By Journal de Chrurrue.

The method of intrapentoneal injection of oxygen was first thought of about 1910 by Thiwar, employed after him by Bainbradge, Meeker, and Rouffaut, and is now highly extelled by Weiss and Senecert, who owe to it a beautiful series of 21 grave cases of diffuse peritonities of every form, out of which they secured 15 recoveries, or 73 per cent of surcess.

The three personal cases which Arnaud reports in this article also deserve to draw attention to a method which is very little employed and yet seems to be very useful. None of the three cases yields had bilateral swelling of the parotid, others of the submaxillary salicary glands

In most of them Sargon has had it cases resophagoscopy has proven valuable, either from a diagnostic point or as an aid to dilatation. Out of 33 cases he had 7 deaths, or rather 5 as there must be eliminated a congenital, incurable cases These deaths were due, one to diphtheria, one to broncho pneumonia one to pleuro pulmonary gin grene after cure of the resonhagen stenosis, one to cachezia existing before the dilatation one to eroph igitis

Therapeutically he divides his cases into three classes In the first the simple cases, slow and gradual dilatation suffices. The sounds must re-

main in position as long as possible

In the second class those in which arsophagoscopy is necessary, one seeks the ornice which is usually lateral, and then dilates under control of sight leaving the sound in place for a moment. At times one resorts to internal ersophagotoms, the indica tions for which are very few (membranous stric tures) Sargon does not make a deep out he only scarifies (Laophagoscopical electrolysis is of service Recurrence may follow its use

In the third class are included cases necessitating external surgical intervention (astrostom) is indicated as an emergency operation to combat inanition in persons in whom dilatation is impossible or difficult or when repeated dilatation of the ersophagus necessitates general anxisthesia as in children, it excites pulmonary phenomena in pa tients suffering from bronchitis

Gastrostomy performed under local anesthesia is usually moffensive. In children the gastra opening is always continent. It permits in complex cases retrograde a sophaguscopy which is east and which has given the writer some very good results Gastrostomy allows retrograde dilatation by the aid of which all strictures can be controlled difficult step is to pass a thread either from below or from above If the thread has been passed from above one must seek it in the stomach either with the gastroscope or, after dilatation of the ornice made by the gastrostomy with the linger. In two cases he could not pass the thread. He then per formed a low cervical resophagestomy Indoscopy by means of this channel was assured and without danger. He then succeeded in passing a thread and in establishing mouth feeding As to the ornice of the resophagostomy it closed of itself patients recovered but one dad from a pleuro pulmonary gangrene a few months after the cure of the a sophageal stricture

In the course of these dilatations except in tracheotomized patients one must never make use of retrolaryngeal continuous dilatation cases in which this was done, chondritis developed and tracheotomy had to be performed Patients recovered The most complex cases yield to dilata tion guided by the a sophagoscope Some vers right or multiple strictures yield only to gastrostomy,

to retrograde dilutation, and some necessitate high and lon er-ophagoscopical maneuvers. Low cervical ecsophagostomy is only utilized in patients which have been gastrostomized, and then only to permit of ersophageal dilatation by the cervical wound

Berard agrees with essay ists with two exceptions Strictures after external er uphagotoms are of only exceptional occurrence. In 10 years he has performed 17 external a suphagotomies for the removal of foreign bodies almost always infected. He has looked up his patients and not one presents any evidence of resophagerl stenosis. The slovehing infections which septic foreign bodies determine at the point of arrest are responsible in a large measure for the stenoses observed after external assorba cotomy

In structures of the simple inflammators type. ersophagitia secondary to a pure primitive spasm is frequent. He is inclined to believe that the spasm is almost always secondary to an initial lesion of the mucosa at the starting point of the stenosing re flexes When structures said to be spismodic appear in patients past the fortieth year one must think of a submutous neoplism of a slowly developing cyfr ibama

Radioscops is of value in these cases. It should precede all endo-croophageal explorations because an aortic ancurvier compressing the disophagus though not frequently found contraindicates a soph agostons. In the hands of the most expert, a stenuoing ancurs sm especially if its pulsations be weak may be overlooked by the croophagoscope (Esophagoscopy under local or general anasthesia is a very precious exploratory method but it is not always possible (intense spasms deviated cervical vertebræ etc 1 We get very little action upon ersophageal infections as long as the food in its passage keeps up irritation and infection of the ulterated zones Therefore in severe cases of ersoph series but the organ at rest as much as possible by substituting for buccal feeding rectal alimentation the value of which is debatalle or gastrostom) Gastrostomy performed under local anxisthesia with a continent orifice is a benien and efficient operation The stomach must not be sutured directly to the I ceding through the opening made by the gastrostomy can be suspended as soon as the cr-ophygeal infection is healed. Often the spism disappears after gastrostomy, and thus intraersophageal maneuvers are simplified Castrosto my allows retrograde catheterization as well as catheterization from above down, together of separately a mode of treatment which usually cures cicitricial resophageal stenosis of a serious nature These methods failing one can resort to low cervical resophagostoms which furnishes more direct access with endoscopy to intrathoracic strictures of small cabber

All these methods, aided by endoscopy, enable one to cure functionally ecophageal stenoses without resorting to endothoracic procedures, the mortality of which is very high

Oser gives the statistics of cicatricial ocsophageal stenoses treated at Von Eiselsberg's clinic during the Forty seven patients have been past ten years treated for resonbageal stenosis, secondary to burns by caustics In 29, corrosive liquids had been taken intentionally; in 18, by mistake In 35 cases caustic potash had been taken, in 3, muriatic acid, in one, lve, in one, sulphuric acid, and in one, quicklime Twenty seven were treated slowly, with repeated dilatation of the esophagus Twenty one of these were perfectly cured. He had only one death following the introduction of the bourse. In 14 cases pastrostomy followed by retrograde catheterization was ample. Ten of these patients were cured, one was not heard from and one died of post operative peritonitis Gastro-enterostomy was a performed 5 times, 4 patients were completely cured The fifth patient was not seen again. In one case, owing to a deep burn of the pylotus, the pylotus was resected Several Inparotonies were performed, one in a case of ecosylangual complicated by pylone stees of the pylotus was a woman at years of the pylotus deep the pylotus and the pylotus and the pylotus of the pylotus and the pylotus of the pylotus and the pylotus of the pylot

I DUMONT

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Gosset: Transverse Incision in Operations upon the Gall-Biadder and the Bile Channels (De l'incision transversale dans les opérations sur la vési cule et les voies bilaires) Bull e mêm d i Soc d'Chr. 1912. xxxviii. 1714 By Journal de Chrurgie

In operating upon the gall bladder and the bil channels, the incision employed must give free access to these organs, must allow of their easy inspection, and must permit the performance of all complementary operations upon the stomach the duodenum, and even upon the appendix Gosset shows that of all the incisions so far recommended there is only one - the undulated incision of Lichr - which fulfills these requirements | Lehr's inci sion has one great defect it does not respect the nervous fibers of the rectus muscle There results from this a nutritional disturbance of the muscle and the possibility of ultimate hernia formation Personally, in 142 operations in which Gosset employed the Kehr incision and drainage, the author had four hernias, all occurring in fat subjects Therefore, during the last few years he has had a tendency to come back to physiological incisions. and especially in surgery of the hypochondrium, to transverse incisions that spare the nervous filaments and therefore insure the normal nutrition of the muscles Of these, the one which actually has the most advocates is the Sprengel incision. This is a hook shaped incision so made that the short external arm of the hook corresponds to the direction of the great oblique muscles, this muscle being cut parallel to the course of its fibers The long arm of the hook cuts transversely the right rectus abdominis muscle, and in case of need of more room the rectus abdominis of the left side Sprengel uses this incision at two different levels, according to the location of the liver The high incision is in the superior portion of the epigastrium. It cuts the right abdominis muscle between the first and second aponeurotic intersections It has the disadvantage of not leading very directly to the gall-bladder, and also of not

permitting extension outward Therefore Gosset prefers the low transverse incision, situated three fingers' breadth above the umbilious upon the second and third aponeurotic intersections of the rectus muscle The patient lying horizontally upon his back, a sandbag is placed at about the level of the angle of the scapula A transverse incision is made from the external border of the right rectus to the median line, incising the anterior sheath of the rectus muscle The muscular fibers are rapidly divided, hæmorrhage from the epigastric artery being controlled by hæmostatic forceps posterior sheath and the peritoneum are divided and the abdominal cavity is opened Retractors are inserted, the wound edges forcibly separated, and a few instants are devoted to inspection and exploration One determines then whether or not to prolong the transverse incision. The external hook recommended by Sprengel increases the operative field and facilitates drainage To obtain more room. it may be necessary to incise the left rectus muscle. This long transverse incision is not mutilating, or only slightly so It does not cut any muscle fibers. and its closure, in the opinion of those who have used it, is not difficult. It has been said that this transverse incision is time consuming - Kehr speaks of from 15 to 20 minutes Gosset has never taken more than two or three minutes to make this incision. It has also been said that after division of the left rectus muscle, the distended stomach protrudes into the operative wound A large compress. slipped under the left lip and retained in position by a retractor, controls the stomach

The interesting point is the ease of access that the Sprengel meason gives to the deep bilary channels When one is accustomed to Kehr's incision, the instantiance with the Sprengel meason are unsatisfied in the state of the st

an absolute demonstration of its value, since two of the cases ended with death and the third would probally have recovered, even will out oxygen, but all the three cases put into plain evidence the favorable effect, local as well as general, which resolves from oxygenation of the peritoreum. There follows therefore, a brief account of these cases

1 A boy 14 years of age, 15 days pressously had been operated for an abscess of the appendit, at the present there were signs of generalized personitis Drainage of the large peritoneum was impossible owing to the adhesions which connected the features of the small intestine. Therefore intraperitoneal infections of serum were made, and then injections of oxygen. The latter were repeated three times a day about to liters of the gas being given at each in ects a (the injection being made very simply by attaching a simple gas bag to the drain) Improve mert was earlient. The patient passed gas and solit matter, the abdimen became suttle secreti n through the drain became more cop ous, the wound tel en a letter aspect. But pulmonars symptoms spervere I and the patient died at the end of eight digt

The autopsy, besides showing feet of say purative by referencements and an unter grazed suddia phage are absects, which seems to have been the case of death also showed that the perturneum presented no traces of inflammation and that the articles had completely disappeared under the

meters of the otygen.

Also (if a years had been operated for a year.

Consequently all a pelver aboves, his condition of the control of the superior and the control of th

re d'apprered Lenvalescence followed after

The third rate was a woman at years of age 4 . percelife had followed a miscarnage a at me had brought only a little dull colored got had not in the least reduced the symp Ber The cordition was ver) serious pulse 140 games , T 1) to the vomi'ed matter greenish , reatyrparitie, the nose and the extremi 1 & laparetumy was performed which on 33; the Leistoneam contained cuts a ten we at all 1 id and that the flexures of the we were distended violet colored and com An abdominor aginal drain was acother drain which reached as far 3 Then the abdomen was closed. · t . Ve letter maneuvers Through the dies was passed 2.1 Forg je bours) During that time an Prin Zemerent was noted the patient fectio ream to 1 = 0 - the pulse remained strong, and and elect brild was bassed cobionsly through the drains, repeated sinderst edic gasendence of the returning contractify of the intestines and the patient even passed a little gas and some log-lid matter. At the end of 36 hours lowext, she became weak and every hope served to be lost. The current of oxygen was interrupted, immediately starways set in the patient became of

again and inferred colligion, two hims laterabedied. Integrente call inference of userin have do userin have due to the general and a head effect. Considerable absorption of the gas both seems reconstruct consistent was seemable interapentioned himstood with the accordance of the gas between the consistent with the does requirant in easier the given more regular orderes attention to the seems for the proper useful tensors. Lethips the original tensor the first of the seems of this proper than the first of any derivery the properties.

on besind relatable than to me. Locally, the street and less on the marshes themselves than on the truster is the effective power of which in tracties. It causes for a fertile seron earlies in with resilient physiciscoperies, which puress the permonent carry, it reviews permitted the intestine and coorteracts the internal parity as with the sex degrees on personals, ranky it along the permonent of themselves and earliest about the a

As a clance mean, and when the reproperties into direct we may emply intermeted the media too of the gas to mean of an ordinary gas has attached to an abdom and drain. But it is also pather preferable when possible to employ continuous monification by means of an oappen that quaying dwith a regulating device which that the distribution of gas it about one her per minute, a finite of warm water it nough which the gas in passed would warm the pass and of minute and warm the passed of minute and of united may dust particular.

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CR. I ENGREENT

Floderus Primary Mesenteric Gland Tuberculosis from the Surgical Viewpoint. And med tek tops als v. Bly S. rg., Gypec & Olst

DETINITION

Pomary resentence gland subservations, considered from the pathologist's standardont includes orthuse cases in which a thorough autopay fails to receil a primary theoretism focus, besied or as tree, in the body thinitially, all cases are included if the control of the control

by swallowed sputum, is not as important surgically, because the tuberculous process in other parts of the body dominates the clinical picture

HISTORICAL

Ball, in 1775, first mentioned tuberculosis of the mesenteric glands as a part of "tabes meseraica" Baumes described the disease accurately in 1788 In the last century it has been described with great precision by French authors, and lately by Hémery in 1001. Carrière in 1002, and Vautrin in 1000 In the Figlish and American literature a considerable number of operated cases have been reported, especially by Fagge and Corner Scattered case reports have appeared in the German literature Brunner mentions 4 operated cases in 1907, Mächtle in 1908 collected 15 and Thiemann in 1910 added 11 cases Floderus has written an exhaustive monograph on this subject, bringing together all the available cases (about 75) from the literature and giving a detailed account of 18 personal cases in which the diagnosis was confirmed by operation in 15 and radiograph ically in 3.

ETIOLOGY

In considering the pathogenesis of primary mesen teric gland tuberculosis it is necessary to discuss the etiology of primary intestinal tuberculosis Recent autopsy statistics show that this is much more com mon than was hitherto thought Among adults, von Hausemann found 25 cases in 8000 to 10,000 autop sies, i. e., o 3 per cent Lubarsch, in over 1000 au topsies, found 56 cases, or 5 1 per cent In children. the percentages given by various pathologists range from .1 per cent to 5 1 per cent of all cases and as high a figure as 25 per cent of all tuberculous cases Investigations on children dying of acute nontuberculous diseases, as carried out by Councilman, Baginsky, Mallory and Pearce, Wagener, and others, show a surprising percentage of cases with primary intestinal tuberculosis varying from 0.5 per cent to 21 1 per cent The great divergence shown by these figures is due to the difference in technique used and the care and exactness with which the historithological examination was carned out, as well as to social and geographic con-

The statistics on primary mesenteric gland tuber-culous are less accessible. Hol, na series of 13,336 cases, of which one third were children and two thirds saults, with \$6,00 tuberculous cases included, found; 15c cases (about 1 per cent) of primary tuber-culosis of the mesenteric glands. Other authors give larger figures. In general, the statistics show that the intestines are primarily involved about three times as often as the mesenteric glands. Clinically, about 100 cases have been reported. In children, certainly tuberculous is the most important affection of the mesentery.

Infection usually occurs by way of the alimentary tract Whether harmatogenous infection can occur is a debated question Dobroklonsky, in 1890, and others proved that the tubercle bacillus can infect

the mesenteric glands without leaving any trace of its passage through the normal intestinal mucosa. The presence of virulent tubercle bacilli in mesenteric glands has been demonstrated by animal inoculations where microscopic examination failed to show any organisms MacFadven and Mac-Conkey examined the mesenteric glands in 28 children Among 8 of these who had clinical signs of tuberculosis, 5 showed virulent tubercle bacilli in the glands after inoculation. Of the 20 who showed no clinical or gross pathologic signs of tuberculosis. at least 5 were shown to contain virulent organisms in the mesenteric glands Apparently healthy glands, therefore, may contain virulent tubercle bacille. In fact the bacille have been known to retain their virulence for as long a period as thirty years in a latent focus in a lymph gland

The exact origin of the tubercle bacilli which penetrate the human intestinal tract is still being debated The two opposing views of aerogenous versus alimentary infection, as upheld by von Behring and koch respectively, acquired a new aspect when Koch announced the duality of human and bovine tuberculosis in 1901 Subsequent investigations showed that the human type of tuberculosis is common, not only in pulmonary affections but in affections of other organs as well. Some evidence has been brought forward to show the bovine origin of primary intestinal tuberculosis Salmon has shown that the mortality from this disease is greater in Great Britain than in the United States, and thinks this is due to more effective legislation regarding milk sterilization in the United States Hohlfeld has reported 30 cases of intestinal infection shown by inoculation to be of bovine origin Dunne reports an epidemic of bovine origin in 4 children fed on the milk of tuberculous cows On the other hand, Gaffky and Rothe, in the Institute for Infectious Diseases in Berlin, investigated 400 necropsies in children, and showed that the type of tubercle bacillus found in the mesenteric and bronchial glands in 78 cases was unquestionably of the human type in 75 The prevalence of tuberculosis in Japan, where cow's milk is not used in the nutrition of children and where most cows are immune from the bovine bacillus, is of great significance Litasato found a mortality of 76 per cent from tuberculosis in over 1,840,000 deaths in the years 1899 to 1900 Among these there were not less than 16,842 cases of primary intestinal affection It seems probable, therefore, that the food products of diseased animals (milk, butter, etc), and the bacilli excreted by human beings play an equivalent rôle in the pathogenesis of intestinal and mesenteric tuberculosis. Heredity plays no rôle in the latter Both sexes are equally affected. The disease usually manifests itself in the first two decades of life, less often in the following three decades The average age of onset is about 15 years Trauma scems to be an exciting cause. Acute infections during childhood, such as measles, typhoid, pertussis, etc., and particularly acute

infections of the ileo cacal region, i.e., appendicitis, are frequently exciting causes

PATHOLOGY

Anatomically, the mesenteric glands correspond to other tuberculous glands but show a greater tendency toward calcification, The tuberculous process spreads in a centripetal direction. Those glands in closest proximity to the intestine are first Occasionally retrograde lymphogenous infection can occur The glands grow excentrically, forming hard, pedunculated tumors. The localization is variable. They seldom are found in the cephalad or caudad segments of the intestinal canal Their site of predilection is the mesentery of the ileum and ileo cacum Floderus found the ileo creal glands affected in 12 of his cases Infection extends along the glands of the ileo colic vessels toward the root of the mesentery. In a few cases the retroperitoneal glands were primarily involved Rarely the glands in the transverse mesocolon and the mesocolon ascendens become affected Meson teric lymphomata are a source of danger as they may involve neighboring vital organs, such as the intestines, bile tracts and the larger abdominal vessels. As a result of fibrous mesenteritis and adhesions, the intestinal walls are compressed and partial stenosis occurs The glands may and fre quently do suppurate and rupture their capsule The abscess may spread between the scrous layers of the mesentery into the retroperitoneal tissue or it may perforate into the peritoneal cavity. The outer layers of the intestine may ulcerate as a result of a suppurative perilymphadenitis Rarely the large abdominal vessels become eroded

SYMPTOMATOLOGY

The symptom-complex of primary mesenteric gland tuberculosis is not characteristic. The onset is insidious and preceded by a latent period of varia ble length. In many cases the disease remains latent throughout and is not diagnosed clinically Among the initial symptoms may be mentioned abdominal pain, malaise, anorexia loss of strength and emaciation In some cases subjective symptoms are absent, and the accidental finding of an abdom inal tumor leads to diagnosis. Abdominal pain is the most constant symptom, and occurs in three fourths of the cases It may be continuous, intermittent, or a periodic griping pain. In children it is difficult to interpret It frequently simulates ap pendicitis When severe at the onset it may indicate grave complications, such as ileus or perforative peritonitis The pain is usually localized in the umbilical and excal regions. It is not affected by posture Nausea may accompany it, and vomiting frequently occurs Prognostically, comiting is an unfavorable sign, as it may indicate the onset of ileus or peritonitis

The most pathognomic symptom is the presence of a tumor mass. In advanced cases a large lymphomatous tumor may be present, with a high degree

of emaciation Sooner or later in the course of the disease, the motor power of the intestines is affected Constination may be progressive and lead to partial obstruction of the intestines The ileus phenomena are due either to mechanical compression of the gut by the tumor mass or to fibrous and suppurative mesenteritis with formation of intraperitoneal synechiæ Necrosis of the compressed portion of the intestine has been known to cause perforation and peritonitis. In some cases diarrhoea is present, and may alternate with constinution. Persistent diar that which does not yield to medical treatment leads to the suspicion of a primary intestinal focus Still it has been shown in many cases with a history of diarrhica, in which part of the intestine was removed together with the mesenteric plands, that the intestine showed no signs of tuberculosis. The intestinal symptoms frequently disappear after removal of the mesenteric lymphomata diarrhoa may be due to a sentic enterocolitis in some cases Blood and mucus have been frequently observed in the stools. The blood has disappeared in some cases after operation and is probably due to stasis in the mesenteric veins. Bloody stools do not necessarily point to piceration of the intestine

I ever occurs in practically all cases at some stage in the development of the diseases. Afforbic cases have been reported, but if the observations are carried over a sufficient period some rise of temperature will eventually be observed. Floderus observed a tres of temperature to 30° and 30° C in nearly every one of his cases, even with subforbic periods. High temperatures muchaet suppuration, peritoints or the oaset of a military tuberculosm to the control of the c

The commonest complication is peritonitis This is either of the fibrous or exudative type. When the glands suppurate, the pus may rupture into the peritoneal cavity Tuberculous peritonitis occurs by direct extension or by rupture of a gravitating tuberculous abscess In two cases reported by Hoderus the clinical picture was that of a tuberculous perstanitis and the suppuration of the glands was discovered at the operation. Icterus is an uncommon complication, and may be due to compres sion of the ductus choledochus by a large tumor Hæmorrhage from erosion of a large mesenteric vessel has been observed in two cases. Heus as a complication or rather a natural sequel of the disease, has already been mentioned Tuberculosis in other organs, as the cervical glands, lungs, pleura, etc, is not a common observation in the cases reported in the literature Branson and Carrière claim that the mesenteric glands next to the bron chial glands are the most important source of miliary tuberculosis

DIAGNOSIS

The most positive finding on which to base a diagnosis of mesenteric gland tuberculosis is a tumor mass. Inspection of the abdomen may reveal a circumscribed swelling Visible peristaltic waves are seen when there is obstruction palpation per rectum under parcosis is the only sure method of demonstrating the abdominal lymphomata. The tumor is usually single, occasionally multiple. It varies in size from a hazel nut to a cocoanut Larger tumors, composed of several lymphomata, have an irregular, nodular feel The consistence is hard and elastic Fluctuation is rarely present. The tumor is usually freely movable and moves with respiration also Immobility of the mass indicates extensive adhesions to surrounding organs Sensitiveness to pressure is a common but not a constant phenomenon A high degree of tenderness speaks for suppuration, although the absence of tenderness does not exclude suppuration. The percussion note over the tumor is not altered as a Free fluid can sometimes be demonstrated, and points to complications

Radiographic examination is of great value in the diagnosis. Many cases in which the X-ray is showed a shadow in the iteo-creal region have been wrongly interpreted as calculu in the ladney or urter. Floderus has shown the presence of calculed meentering clands in a case by this method. It has its greatest glands in a case by this method. It has its greatest are masked. Serological examination by von Private methods of the property of the pro

according to Floderus

DIFFERENTIAL DIAGNOSIS

Little attention has heretofore been paid to the diagnosis of mesenteric gland tuberculosis. Among all the cases reported in the literature, only 7 were diagnosed before operation. Of 12 cases in which Floderus made a positive diagnosis, 7 were confirmed by operation and a by the X ray Lukula diagnosed his case as a solid tumor of the mesentery Bier as a retroperitoneal tumor Vautrin and Routier mistook their cases for ileocæcal tuberculosis. In several cases tuberculous perstonitis was suspected. In fact, the differentiation of these 3 conditions is very difficult. Heo cacal tuberculosis affects adults chiefly Primary mesenteric tuberculosis is twice as common in children, according to Floderus In circumscribed tuberculous peritonitis there is a fixed mass in the abdomen. An intraperitoneal exudate speaks for a tuberculous peritonitis In some cases with suppurating retrocacal lymphomata, the tumor may be come fixed also In many cases an absolute diagnosis is impossible without operation

Tuberculous glands in the id-o-excal region have been frequently confused with appendictis. The Pain is, as a rule, weaker in tuberculous, the onset is less stormy, the fever is not so high at the onset, and miscular rigidity is less pronounced. When a manufacture rigidity is less pronounced when a manufacture of the proposed of the

nephrolithiasis, floating kidney, echinococcus cysts, etc, come into question. Facal masses can be excluded by giving a laxative. Periodic fevers of various sorts, especially typhoid, must be excluded Floderus thinks that tuberculous glands, next to chronic infections of the tonsils and adenoids, are the commonest source of the indefinite periodic fever so common in childhood. In just these cases the X-rays and subcutaneous tuberculin injections are of great value in the diagnosis.

PROGNOSES

The majority of cases of primary mesenteric gland tuberculosis are latent, and therefore benign. The minority offer an unfavorable prognosis. Exitus is brought about by peritonitis, miliary tuberculosis, or manamus. A few cases of post-operative death are recorded.

THERAPY

After the diagnosis is made, treatment is primarily medical, provided there are no immediate indications for surgical treatment Prophylaxis is important All sources of further tuberculous infection from questionable food products or from human sources should be eliminated The nation is instructed to wear a firm abdominal binder Abdominal traumata and violent exercise must be avoided. At the first sign of appendiceal involvement, laparotomy should be performed and the appendix and the affected glands removed Post-operative treatment includes absolute rest in bed for one to two months at least. Exercise is to be carefully avoided at all times after the operation X ray therapy is worthy a trial Floderus has employed it in two cases In one, after 22 exposures, the patient's condition improved and the temperature dropped. The second was an advanced case with retroperitoneal lymphomata. and was not improved The X-rays should be tried where operation is contraindicated or refused

The first radical operation for primary mesenteric gland tuberculosas was performed by Czernyin 1857. This case was accurately diagnosed before the operation. The patient died of septic peritonitis. The first successful radical operation was done by Ber in 1850. Kukula, in 1850, first rescred the intestine in this disease. On reviewing the histories of the cases operated upon, it was found that the of the cases operated upon, it was found that the short one. Sevenies prior to operation was a short one. Sevenies prior to operation was shown as short one. Sevenies of the cases of the cases and and the cases have dead warked symptoms for two weeks. The cases the diseases had existed eight to ten years of more than the case when the case was the case when the case was the case when the case was the case was the case when the case was the case

The technique of the operation has been well worked out. The incision naturally depends on the position of the tumor. The median incusion must be considered as the normal one. It gives easy access to the mesentery and gives sufficient space for extirpating the commonests, i.e. the life-caccal, lymphomata, and it necessary the segment of gut drained by them. Some operators prefer a right-sided incision, as in appendictits. After entering the peritoneal cavity all the groups of glands in the

mesentery should be carefully palpated, as small glands next to the intestine are easily overlooked, especially in fat individuals with considerable omental fat

The ileo-excal region and the mesentery supplying the terminal two feet of the ileus should be given special attention Old calcified glands are frequently the guide to the location of the active process The lymphomata are best removed by blunt dissection in order to prevent severe hemotrhage from the frail mesenteric vessels. The serosa overlying the lymphoma is incised, the gland is shelled out by keeping close to its expaule, and the serosa is closed with beavy catgut sutures Careful hæmostasis is essential to secure an uneventful post operative course. I argo, adherent pockets of glands should not be removed as a whole because there is danger of injuring the nutrient vessels to the intestine. If the tumor involves a large part of the mesentery and resection is unavoidable, the mass may be removed in toto Where extensive aithesions to retroperatoneal structures are present, the tumor is best removed in pieces. The more thorough the removal of the glands the more rapid is convales cence Even incomplete removal gives good results, as I loderus has shown It is perfectly safe to leave in place some of the smaller outlying lymphomata when the glands are distributed over a large area Pus cavities should be freely exposed and their contents wiped out. The abscess wall need not be extirpated If desired, a tampon can be left in the abscess cavity for a few days, but as a rule drainage

is to be avoided Among complications occurring during the operation may be mentioned the bursting of the softened glands, with infection of the peritoneum or abdominal wall. I ven after this accident an undis turbed recovery may be secured if the pus is wiped out and the peritoneum closed over the cavity (Corner, Machtle) Bier's case was complicated by an abscess of the abdominal wall Vautrin's case had a regional recurrence. Grüneberg's case and Czerny's case died of peritonitis Rupture of the intestine owing to adherent masses of glands and accidental opening into the intestine are reported by Baum, Stark, and Hoderus Dangerous hamor thage has occurred in several cases. These compli cations show the necessity of walling off the opera tive field with gauze packings before extirpating the Is mphomata

Entilection authout resection of the intestine should therefore be regurised as the normal operation. I only cases have been reported in the literature. Hodeurs has had an experience of y cases. In a number of these, total removal of the glands touth on the done because of their extensive distribution. In one third of their extensive distribution. In one third of their one case a gratification of the contraction of the contract

In 5 cases sepsis, 1 e peritonitis, was the cause of

death. In 2 of these the perstonitis existed before the operation In 2 cases miliary tuberculosis developed In another 2 cases Floderus found it necessary to perform an enterostomy because of ileus symptoms three days after the enucleation. Both of these cases resulted fatally In the majority of the cases the end results could not be accurately foretold, because the cases were observed for only a year or more Among later post-operative complications I loderus noted an acute exudative neritonitis two weeks after the operation, which he thought was due to rupture of one of the peritoneal sutures, with infection by tubercle bicilli another case of Floderus free fluid was present three weeks after the operation. Both cases recovered Intestinal disturbinces are rather frequent during convalescence. Some resistance at the site of the tumor remains for a variable period. Some recur rences are rare. Viuttin describes a recurrence seven months after the first operation. Hoderus records a recurrence after two and one half years, necessitating extensive resection of the ileo-carcum

and ileum, with recovery Light cases of resection of the intestine are reported (Baum, Brunner, Aukula, Mächtle, Michaux, Sherman Thiemann, and Vautrin) Floderus has performed resection plus enucleation five times, without any mortality Usually the peripheral part of the ileum or the ileo-carcum was removed Baum removed part of the jejunum. The length of the resected piece of gut varied from 8 to 237 centimeters One case died of a pre-existing peritonitis. The remainder ran a favorable course, although the period of observation was too short to determine the final result. Kukula's case showed a recurrence three years later in the form of a large abscess Thiemann confined himself to incision of the softened glands at the root of the mesentery The indications for resection of the intestine were the presence of extensive adhesions infiltration of the mesenteric vessels larger tumor masses encurcling the bowel necrosis of the bowel wall from compression or accidental rupture of the bowel during the operation. An end to end or a lateral anasto-

moss was done in eich ease.

I simple exploratory laparotomy is said to give as good results in mesenteric gland tuberculosis as in tuberculosis peritoritis. Busarfet, Austrin, and I Greves have reported favorable results. The number of reported cases and the clineral accounts of the same are too meagre to show any definite conclusions.

I nterostomy may be necessary if there as a diffuse peritonia with paress of the bowel wall, as described by Themann Thoderus and Beale were forced to make a secondary enterostomy because of tleus symptoms Gastro-enterostomy was performed by Floderus in a case in which the duodenum was compressed by the tumor A second attempt at choledocho-enterostomy by another surgeon one and one half months later, to relieve the cholema, resulted fatally from hamorrhay

From his experience, Floderus concludes that the end results of radical operation are in the main satisfactory. Of the 16 cases operated upon by him, it were well at the time of writing. The mortality was high only in advanced cases with complications such as ileus and peritonitis. If the diagnosis is made early, operation should not be cidalyed till threatening symptoms come on If a large tumor is prevent or progressive emacriation, severe abdomining hair or repeated attacks of fiver except the indicational peritonities of course, call for immediate operation. Pullmonary tuberculosis is not a contraindication in the early stages.

Hoderus concludes his article by giving the case histories of over 70 cases reported in the literature and a detailed account of 15 personal cases

LEWIN P. ZEISLER

t me t pat t

McGrath: Intestinal Diverticula, Their Etiology and Pathogenesis, with a Review of 27 Cases Surg, Gynec & Ohst, 1912 xv 429 By Surg Gynec & Obst

Diverticula occur in every division of the digestive tract, from the beginning of the ersophagus to the end of the rectum, including the vermiform appen-They are most commonly present in the large intestine, usually in the descending portion are generally multiple, of the false type, and frequently are associated with the appendices epiploicae Several etiologic factors are concerned in their formation, namely decreased resistance of the intestinal wall, increased pressure from within the bowel, the passage of a structure through the wall, forming a locus minoris resistentia along which the protrusion makes its course In the small intestine they rarely undergo pathologic changes which are sufficient to produce symptoms. In the large bowel the diverticula are the source of patho logic processes which, in some cases, are most grave Masses arising from diverticular infections may clinically simulate malignant tumors and the process may result in malignancy. In a series of 27 cases, 25 9 per cent were malignant. This per centage is to be applied only to diverticula resulting in marked pathologic changes, and not to the occurrence of diverticula in general The most common initial change following infection through intestinal diverticula is a chronic extramucosal inflammation - peridiverticulitis This fact is of essential importance to the clinician in seeking symptoms during the early stages of the condition In 26 specimens presenting peridiverticulitis, in but 5 was the mucous membrane of the diverticula extensively involved, in 19 its inflammation varied from mild to a moderate degree, and in 2 it appeared

Of prognostic importance is the fact that in this series of 27 cases all presented tumefaction of the large intestine and all occurred in the so called cancerous period of life, yet 74 x per cent of them proved to be only inflammatory. The complications and sequela of these infections are manifold Among these are ulceration, perforation, adhesions, abscess formation, fistulous communications quite commonly with the bladder, peritoritis, etc. complexity of the resultant nathologic processes has given rise to numerous diagnoses. The condition has been mistaken for carcinoma of the large bowel affections of the gall bladder, liver, pancreas, and duodenum, appendicitis, pelvic peritonitis, ovarian tumor etc. The necessity of early diagnosis and adequate treatment is obvious in the light of the possible complications with the hazardous operative risks and the percentage of malignancy which has been noted A knowledge of the occurrence of intestinal diverticula, the location in which infection through them produces serious trouble, the age at which they most frequently occur, together with a consideration of the course of the pathologic process resulting from infection through these pouches. should result in more and earlier diagnoses and an increasing success in treatment

Bienvenu Diverticulitis and Diverticular Occlusion of the Intestines (Diverticulities et occlusion intestinale diverticulaire)

Thèse de Paris, 1912

By Journal de Chirurgie

This work is a compilation of studies relating to the above subject, the author reports eight addi-

tional unpublished cases

Meckel's diverticulum, which is found in children
with a frequency of 1 in 60 or 1 in 100, is very often
the cause of early pathological conditions, of which

the cruse of early pathological conditions, of which intestinal occlusion is by far the most frequent. This may be produced mechanically (volvulus, invagination or strangulation) or by inflammation (the result of an old diverticulitis).

Diverticulitis may be plastic or suppurative. In the latter case the general picture of peritonitis may be present so that the disease deserves to be likened to appendicitis The author describes two phases of inflammatory occlusion - the first, pseudo appendicular, the second, occlusion. Beyond this the symptomatology of diverticulties is ill-defined. We may assume this condition to be present when periumbilical pains are present, when there is marked swelling in the umbilical region with an associated low temperature and quickened pulse. the abdomen for a long time remains supple and only later becomes slightly rigid and tympanitic. The co existence of another malformation, in particular a tumor or a fistula of the umbilious. should be taken into consideration in making a diagnosis

The treatment of occlusion due to diverticulum will vary with the case, as, simple resection of the diverticulum, resection of intestinal flexures, and the formation of artificial anus. Whenever in the course of any operation the presence of a diverticulum is discovered, it should in every case be removed. If an operation, following abdominal complaints, abould prove the appendix to be an a healthy condi-

tion, it will be well to examine the last few centimeters of the ileum to look for a persistent diverticulum, which may be the cause of the complaints I L. ROUX-BERGER

Pakowski. Dermoid Gysts of the Mesentery (Les kystes dermoides du mésentère) Arch gen d Chir, 1012. VI. 1020 By Journal de Chiturgie

Forty three cases have been collected from the literature They were located as follows 7 in the omentum, 1 in the small omentum, 3 in the lesser peritoneal cavity, I in the mesocacum 2 in the ascending mesocolon 5 in the transverse mesocolon I in the descending mesocolon, 3 in the mesosigmoid, 8 in the neighborhood of the rectum, and 12 in the retroperitoneal space. These custs are commoner in youth, and more frequent in females (20 out of 31) The cyst contents are sebaccous matter - hairs, teeth, nails - and in a compound cyst, bones, cartilage, and muscular and nervous tissue

The symptoms of dermoid cysts are those of all cysts of the mesentery For a long period the cyst may remain latent then later there appears in definite, vague functional disturbances and an abdominal tumor is detected. At times the onset is more dramatic acute abdominal pain, simulating peritonitis or intestinal occlusion. When the tumor is fully developed we see either a symmetrical or an asymmetrical swelling bulging the abdominal wall more or less according to the volume and Palpation gives a rounded globular regular or lobulated distended or elastic, and at times a fluctuating mass

The cysts are usually mobile Immobility sug gests complications The cyst has spontaneous mobility - it moves with the position of the patient and with respiration Percussion may give a dull note, at times modified or concealed by overlying loops of gut. The functional symptoms are few. At times there is nain meteorism and constinution. The most frequent complications are intestinal occlusion, torsion and suppuration of the

The diagnosis is in practice very difficult. One must exclude tumors of the great omentum of the gall bladder, of the sigmoid colon, of the transverse colon, of the spleen, of the female internal genitalia If the diagnosis of cyst is made, one may besitate as to the location of the cyst and confuse a mesenteric with a pancreatic cyst, a retroperitoneal cyst, a movable kidney, complicated by hydronephrosis At times the X rays may assist, for instance, the radiogram may reveal the presence of bones of teeth

Several surgical methods have been suggested for the treatment of these cases simple aspiration (a blind and unsafe procedure) or marsupialization, which is simple of execution but leaves a fistula slow to heal. The method of choice is extirpation Thirteen cases treated by extirpation gave it rapid recoveries

If a cyst is pediculated, adhesions are separated, the pedicle carefully ligated, then divided If the cyst is intramesenteric, one divides the overlying mesenteric layer by making an incision parallel to the vessels, as much as possible in an avascular zone and as far as possible from the intestinal border. The cyst is enucleated with or without preliminary evacuation of its contents I DUMONT

GASTRO-INTESTINAL TRACT

Schutz Gastric and Duodenal Ulcer. Were blue Il chusche 1012 xh By Surg , Gynec & Obst

Schutz examined a great many cases of gastric and duodenal ulcer in his clinic in Vienna. He reviews the present conceptions of these diseases Payr's experimental results of producing ulcers by formalin injections in animals cannot be regarded as of etiologic significance in the human Of more interest is Schmidt's and Heyrovsky's discovery that islands of pavement epithelium in some stomachs. when damaged by the hydrochloric acid, resist less than the normal lining and thus ulcers are formed. Hypersecretion, formerly regarded as a neurosis, is seen by him more frequently as a symptom of gastric ulcer Pain may be pathognomonic, particularly the localized pain, and herein he agrees with most observers. Occult blood is more characteristic for carcinoma than plain ulcer. The Rontgen diagnosis particularly the Haudeck symptom of a small bubble like appendix to the regular shadow, is of great value

Gastro enterestomy is his choice, but he says some (3) words in praise of von Liselsberg's method of pyloric exclusion In regard to duodenal ulcer, Schutz confesses less experience, and points to the progress of English and American surgeons CARL BECK

Ransohoff The Operative Treatment of Gastro-Enteroptosis Boston M & S J 1912 clava, By Surg , Gynec & Obst

The author calls attention to the overshadowing feature of some concenital variation from the normal embryonic process of parietal fixation of the intestinal tube in the causation of gastro enteroptosis He believes the most important of these to be the insufficient fixation of the cacum and lower part of the ascending colon. The fact that a mobile cacum is often found without symptoms the author considers of no value. In the excum bacterial activity reaches its climax and in the event of inadequate or delayed drainage the symptoms of autointoxication become pronounced, and neurasthema in some of its many forms crowns the process It is so often here that the Jackson membrane is found, which the writer believes to be the result of a low form of long standing infection These cases as a rule show the history of constination from childhood

In easy appendix operations where the cæcum is mobile and dilated, the author fixes the excum by one or two lateral sutures after reducing it in size by cacoplication

In probable of the mideolon the author performs colorest a facting result, the perineum of the anterior ab dominal will be divided along the line of proposed fration and the fractive crossed from within. Into these deauded spaces the omentium is fixed by interrunted or continuous stutres.

The cause of coloptous the author habres to be the high and time become fit our, when a sale called construction spirates the neith allows to find part of the pressured and from the empts also segment. The latter is in reality intended only in the passage of the frees. I have the passage of the frees of the author often supple merts the colopia, with resing of the mesondon He does not believe that exclusion operations put truling that of Lane are indo sted save in extreme cases.

In regard to gastroptous the author believes that its importance has littly been lost sight of by it is on of the extensive cultivation now practiced in the field of coloptous. He believes that in not a taw cases a prolapsed stomach is citologically more important than the sagging of the colon which may result from it.

for distribute the resorts to gesterphysican. I he author does not believe that are grastopistic patient should be operated on except for some actual functional destructions. He that of which must be the aim of the operation. In mine seeming, the aim of the operation is mine seeming the more than the control of the properties of the p

Rammstedt Operative Treatment of Congenital Stenosis of the Pylorus Med Alex 101 vin 1402 By Surg Sayner & Obst

The author reports two cases of this type upon which he operated. He prefers splitting the palorus without incision of the mucous membrane followed either by transverse suture of the longitudinal incision or as he did with his second case, he no suture at all.

CASS 1 Maje child normal during first the weeks of life, after that vomiting frequent pairs townstead of life, after that vomiting frequent pairs consupation for two weeks internal pair during to improvement, constant loss of weight and vomiting. Observation from loss of weight and vomiting flows and as thick as the little finger zem in length toward and as thick as the little finger zem in length to was difficult to bring ps potents out of the wound Small intestine quite atrophic I ongetudnal splitting of pylorus with transverse suture. Recovers was retarded by frequent attacks of vomiting which key for to days. After that steeds improvement

CASP 2 Three children in this family had been affected with vomiting soon after barth. The first, a girl, recovered after fix emonths and is now well. The second child a boy died after four months of womiting. The third, also a boy presented similar symptoms and died in consulsions at the 48c of four months. Autopsy showed a typical by pertrophic stenois of the pylorus. The fourth

child, a loop, was normal for the first ten days after burth. From then on muscl feeding was administered because of scarcity of mother's milk. This change of lood was followed by confitung, scant stools and decrease in weight. Thelve days later operation was performed. The pyslows showed the same changes as in Case 1. The stenosis was mixed. The incrivoin gaped strongly, the murcous mixed of the pyslows should be murcous properties of the pyslows of t

Discussion of the various operative procedures employed so far in the treatment of pyloric stenosis follows (1) Jejunostomy was employed by Cordua, with fatal results (2) Pyloric resection was ner formed with death following. The great tension upon the duodenum makes delivery almost impossible (3) Divulsion is the operation of choice according to foreta. It is a brutal maneus er which is not surgical (4) Gastro enterostomy is followed by a mortality of 40 per cent in 135 cases as collected by >cudder Scudder's success in eight consecutive cases of posterior gastro enterestoms without a tatality makes it evident that the skill of the individual operator plays an important part (c) Paluroplasta in 1008 21 cases were collected with a mortility of 57 per cent 1 small mersion is Suffix at DE Lailures are due probably to plication of the mucous membrane after transverse suture Iransverse suture through the longitudinally incised muscle is difficult. Weber recommended partial paloroplasty while leaving the mucous membrine intact (6) 1 combined operation of pyloroplisty and divulsion was devised by Nicoll I I shaped incision was made in the transverse axis of the pylorus and this was sutured in a Y term after divulsion through a small incision in the stomach. The mucous membrane was left intact. Six cases were reported with five recoverus Rammstedt enumerates the objections which may be made iguiest the method practiced in Cisc 2 Lear of possible gangrene of the exposed mucous membrane is unfounded. The exposed portion of mucous membrane is too small Omentoplasty might be done to protect against possible perfort He does not think recurrence possible by a reumon of the cut edges. The defect probably will be filled by connective tissue. After treatment is of great importance as the small intestine is usually atrophic and not accustomed to large amounts of food I ceding must be done under expert direction. as otherwise the good results of the operation might be frustrated L C RIEBEL

Gouilloud. Some Cases of Pylorectomy with Resection of the Transverse Colon (Quelques cas de pylorectomic avec résection du colon transverse) 26th Cong de l'Ass fran de Chir, Paris Oct 9 1912 By Journal de Churren

Gouilloud presents five patients in whom it had been necessary to resect simultaneously a portion of the stomach and of the transverse colon The first, a woman of 35 years, had a tumor of toke (900 gr.). The tumor of a leonymon or my osar-com't) had its point of origin in the muscular layer of the fundus. The spleen was located upon the lateral face of the tumor, and was removed with it. The patient suffered neither from shock nor from peritionists, but she had been with was attributed to the spleen of the spleen with the spleen was attributed to the spleen with the spleen was attributed to the spleen with the spleen was the spleen with the spleen was the spleen which the pytients usecumbed.

The second patient, also 35 years old was a woman affected with an encephiloid enneer of the greater curvature, which had invaded the gastrocolic mesentery but remained movable. She was

doing well ten months after

The third, a woman 62 years of age was operated bully tumor which was recognized to be of an infimmatory nature. It was formed of a thick shell enclosing a sanious cavity which communicate with the gastin, cavity by means of a perforated ulcer. The pittent was doing well 15 months after. The other two cases were colectomes for canner.

of the colon adhering to the prepyloric region.

One of them, operated the first time by colectomy, returned with a movable and operable recurrence.

The patient was getting along well three years after the first operation and nine months after the second. The other patient was operated for a cancer of the transverse colon, which adhered to the stomach

transverse colon which adhered to the stomach. The trouble has not recurred for more than ten years

In conclusion resection of a portion of the trans verse colon but very slightly aggravates the mortality of a pylorectomy

These complex operations should not be considered futile attempts, they may be followed by lasting

results
The anatomical relations of these two viscers
explain the readiness with which they are invaded

in common

Neoplastic involvement is also likely where the

middle portion of the colon adheres and occlusion is to be feared, so that the adhering organ must be resected.

It is best to determine, before attempting any

It is best to determine, before attempting any removal, the extent of the involvement and if the colon is implicated to resect on bloc the area of which the tumor forms the center

Blad. Chronic Duodenal Ulcer and Its Operative Treatment Arch f kim Chir., 1912 xxix, 413 By Surg Gyncc & Obst

Report and analysis of 32 cases of chronic door donal ulcers, from the clinic of Porf Th Rövsing The observation of the cases has been very exact, supplemented by laboratory and X-ray examinations. Blad pleads for a sharper distriction between doordinal and pleads for a sharper distriction between places are found to the plorary both not inferquently ulcers are found lower down which may give rise to complicating affections of the bulary passages and

the pancreas Contrary to the tendency of assuming appendicitis or gynecological affections as causes of duodenal and gastric ulcer. Blad emphasizes that the majority of patients observed had been entirely free from any disease before outset of ulcer symptoms Lxaminations during operation were carried on with great precision, and in most cases augmented by gastro-duodenoscopy with Röysing's gastroscope In quite a number of cases cicatricial changes of the wall of the duodenum dal not correspond with the seat of the ulcer The use of the pylonic vein as a landmark for the ulcer, as practiced by Mountain and Mayo, has not been practiced. He confirms the presence of hunger pain (Movnihan) to be a highly suggestive symptom of duodenal ulcer findings have changed the explanation of pain two or three hours after meals. The palorus normally closes when acid gastric contents touch the duodenal wall and remains closed until complete neutralization has taken place. In the beginning, when the gastru contents are slightly acid, neutralization is accomplished within a short time During this . phase the pylorus generally relaxes and permits renewed passage of food as confirmed by X ray findings Gradually, with increasing acidity of gastric contents the normal reflex becomes more pronounced and the pylorus remains closed for a longer period. This is increased by the irritation of the ulcer by the acid contents Continuous contractions of the pyloric end of the stomach take place to evacuate this and these cause the name. As lone as the untrum contains anything these pains continue Renewed taking of food or of alkalis neutral izes the acid the pylorus relaxes passage of gastric contents is possible and the pain ceases. Nightly pains were caused in many cases by more or less pronounced motor insufficiency of the stomach In a smaller number of cases adhesions produced these pains. In over half the cases, the pain was on the right side usually of the enigastrium and along the curvature, in some, complications of pain beneath the right scapula or in the lumbar region and right thac region One case showed marked influence of pain by posture. While standing, this was continuous irrespective of food, and ceased on lying down Operation revealed that the round beament of the liver was broadly adherent to the convexity of the duodenum due to an old local peritonitis, the beament covered a perforated ulcer

Hemorhoge. Hemateness or melara occurred to times in 4 cases occur hymorrhage was demonstrated by examination of the faces. Blad advises to conduct these examinations during a time when bleeching is likely to occur, as after unusual exertions or after an error in diet. He finds antiquousm between pain and hemorrhage. In the latter crises there often is little or no pain. All uleres causing marked hemorrhage were found in the bemorrhage often results from uleres which show bittle or no influminatory reaction. Iterus was present in two cases, explained by the location of

ulcer near the papilla. One case had a complicating cholecystitis Clinical signs of pancreas affection were roted in two cases. Blad finds that gly cosuma and decreased sugar toleration should remind one of the possibility of uker of the duodenum Sensi incress to pressure occurred in 15 cases where it was right soled, some patients showed pronounced defense over the right rectus. Nine times tenderness on pressure was found over the gall blad for region and twice along the left curvature. I viminations after test meal showed that also not of free hadro chloric and may be associated with what of the duodenum. Hypersecretion was torned in about one half of the cases. Operation disclosed in 25 cases an open ulcer despite the long duration Chronic perforation was discovered in 5 cases. In 2 cases the ulcer was not tound during operation but discovered later at the autonsy Inents two cases were treated by anti-rior easter-interestomy with subsequent entero anastomosis except two owing to weakness of patients. Resection of various Linds was practiced pinetimes. In two cases where the ulter was so near the papilla that exterpation was not possible the pelorus was resected und invaginated into the duodenum Constru duoteral end was closed and an anterior gistry enterostoms with entero anastomosis done finds that simple gastro enterestoms as got Lonks in cases where darger of perforation or ha morrhage is passed. One patient succumbed to renewed hymorthage seven days after simple gastro enterostomy 2 patients had grave bemorthages two or three years after operation. If repeated hamorrhiges have taken place and the uker is situated in the corcavity of the duodenum near the great vessely gastro enterostoms in unreliable, and a more ride il operation should be performed I C Rieger

koch and Cerum Intussusception in Children 400 cases Edinb II J 1912 is 222 By Surg. Gone & Obst

The authors recommend the bloodless method of textiment, groung statistics showing that they are able and the state of the

The case reported have been observed in a period of 19 years. Suty per cent occurred in the first year, of which two thirds were in the fifth to seventh month. During the second very of life no more cases occurred than did in the fifth and with month. The most common form of intussusception is the idea casal. It was found in Si per cart of cases under one pear and 66 per cent over one year. The

predisposing factors were found to be ascarded, polypi, Meckel's diverticulum, easter oil indiscriminately given, cussing strong and irregular perivatalsis and distributes. The latter seems to play an important part, as most cases occurred during the fifth to seventh month, just at the time when the child vi started on artificial food.

when the chief is started on artificial food. The authors by stress on four cardinal symptoms pun typically cole in type, counting, usually courring eight blood stained mucus per rectum, appring about six hours after nort, and turner miss. The blood stained mucus may be absent in small method to the control of the contr

TOWING L. CONNELL.

lenormant A New Fattapertioneal Method of Chosing an Artificial Annus or Issuab of the Intestine New on non-ear process, extended the deferments de Lans artificiel sans ferom et des issuales labores de l'intestini. Bull et nem Soc d. Chr. 1901. axxviii 1160. By Journal de Chargrese

This method consists essentially in a combination of classical procedures for reducing an artificial anus by passing a loop of catgut about the gut. It comprises the following steps:

1. A short ancision of s or 6 mm is made within or 1 cm of the artificial anus and reaching as far is the aponeurotic muscle. Through this incision a No 2 catgut issure is passed around the opening. It is a within 2 to 1 cm of the orifice and within the wall of the aponeurotic muscle. The catgut, with its two ends caught in a forcept as they pass out through the mission is not set thelicined.

2 The edges of the anus are freshened by folding back the mucous membrane of the gut if possible to a distance of to to 12 mm 3. Union is made by bringing the mucous lips

i Union is mide by bringing the mucous lips of the orifice together by means of a fine catgut thread where these separate, a whip stitch suture is put in

4 Now take up the suture which forms the loop, draw it together and tie. All the layers of the gut will purse out about the orifice, which is thus closed. The ends of the thread are cut even with the knot and the latter buried under the suture, which closes the latteral incision.

5 Suture the cataneous lips of the artificial anus. Lnorman I has employed this procedure in any putents 4 times for a cat al mus (1 of these case were subjects on whom he had previously performed excustomy for obstruction, the fourth was in a case of cancer of the sigmoid flexities which had been removed to the sigmoid flexities which had been removed for the sake of safety), once he employed it are an alive, anny, and once for a large librated after an alive, and once for a large librated after an alive, allowing a complex operation for a procedurities.

In three cases he has 4 times (2 cases of ceral anus, situs annus, and the stereoral fastud) obtained primary union and complete and definite closure of the anus of fastud within the course of egilt as in the other two pritients a very small punctiorm fistula remained, which now and then let escape a few drops of liquid matter. The histule were closed by cautetratation

To sum up, we have here a procedure which very often is efficacious and so simple that it deserves to be tried in all cases of artificial anus without spur If closure is not obtained, one is still free to

perform the intraperitoneal operation

Robineru has had occasion, in a number of instance, to employ a procedure which is analogous to that described by Lenormant and nearly always with success. He does not even make an incision with success, the does not even make an incision that the literal is tightered, it is literal, so that with the literal is tightered it, it literal is tightered in the literal in in the l

Bockel Resection of Two Meters of Intestine (Heum, Gweum and Ascending Colon) in a 1 orm of Appendicitis Not Yet Described (Résection de deux mêtres dintestin (Heon, ceum et colon ascendant) dans une forme d'appendiste non encore dérnités! Ball del tead de Mid Ivan 141

By Journal de Chruryer
There is a process which Blockel has not see
described where there is an adhesion of the terminal
extramity of the infixed appendix to the anterior
layer of the mesentery near the point of its original
for appendix is perforated and a supporting forces forms between the two layers of the measitier.
This focus though limited in the beginning may
acquire, such dimensions that it may have the appearance of a true tumor

Bockel observed a patient in whom this condition had begun eight drive before with volent params in the lower abdomin and fever as high as 30°. Palpation between the umbids us and the anterior superior livit spines received the presence of a tump freshed head and for the head amount of the properties of the properties of the properties of the gall badder or appendixes.

At operation he found on the right side an enor mous bundle of intestinal adhesions, all againtimated and forming with the excum and the ascending colon a compact and almost unse capitable mass covered over with thick adhesions, orientation in this mass excumin he mick finger mide a rest in an enormous pocket, from which there escaped a flood of from 400 to 500 ct of fetuld pus This pocket extended upwards toward the verticaral column. Another pocket extended downward to Doughlas a pouch.

In order that he might not prolong the exploration unnecessarily and that he might extirpate the secondary, foci which were certain to be found more deeply. Boekel decided to resect two meters of intestine (80 centimeters of the item and 90 centimeters of the excum and ascending colon, as far as the heraute ficture of the colon).

An ileocolic lateral anastomosis, with a Murphy button, re established the continuity of the digestive tract

Dissection of the specimen enabled Bockel to find a close adhesion of the terminal extremity of the appendix to the anterior layer of the mesnetery and to discover that the appendix was perforated and communicated directly with an enormous cavity which had been hollowed out between the two

layers of the mesentery \ \text{second liparotomy was performed in the month of August to extract the Murphy button, which had not come away, and to suture a persistent steronal listula
\(\text{Chirocart} \)

Satterlee Mobile-Dilated Cocum, Diagnosis and Treatment, with Case Reports Am J Guaro-Entered 1912 u. 1 By Surg Conce & Obst

The author reports a number of cases of "mobile diluted excum He states that the diagnosis of these often obscure cases is difficult without the Xriy. This condition has usually been wrongly diagnosed as appendictits which may coexist but is

not the chief source of the trouble

The principal symptoms and signs of this con dition are pain and tenderness and a varying amount of distention in the region of the crecum Radiographs show a much diluted cacum, which contains the bismuth after it has passed into the ascending colon often after two or three days. The principal points in this condition are dilatation and atons, mobility may or may not be present, and prosis depends upon the position of the rest of the colon The drignosis belongs to internal medicine, and the treatment in a large majority of cases, is medical Massage and vibration of the colon especially over the cacum, hygiene and diet for constinution with the omission of cathartics and laxatives, and abdominal support with colon pads for ptosis if it exists, are the principal means. If medical treatment does not relieve operation is indicated Plication of the excum with or without fixation, and fixation of the colon if marked ptosis is present, have given good results in his cases

Appendectomy is often indicated but is only part of the operation. In every case there is the necessity of studying the whole gastro intestinal tract by means of serial radiographs and the bismuth test, besides the ordinary chemical and mechanical methods. The cases should always be followed up carefully by methoal treatment

Flint. Lmbryonic Bands and Membranes About the Cacum Bull Johns Hopkins Hosp, 1912, xxii, 302 By Surg, Gynec & Obst

In any large series of cases, the fine vascularized membranes found upon the ascending colon or cxcum, known as Jackson's veils or membranous pericolitis, may be simply divided into three types The commonest group is that where the veil extends from the parietal peritoneum along the lateral margin of the colon, particularly near the hepatic flexure over into the lateral and ventral aspects of the colon and cocum Often the caput of the cæcum is free, but they may extend downwards not only to the caput but even to cover the proximal portion and sometimes the entire appendix as well Another type occurs lower down, and extends from relatively the same part of the parietal peritoneum out into the head of the execum and usually covers the proximal half and more rarely the entire appendix as well Veils of this description do not as a rule extend high up on the ascending colon third form, which is relatively rare passes over from the ventral aspect of the colon and is continuous with or apparently adherent to the omentum. In some cases it may extend from the parietal peri toneum on the lateral wall of the abdomen over the ascending colon, and then becomes continuous with the omentum, often holding the ascending and first part of the transverse colon side by side, with a sharp angulation at the hepatic flexure if the latter happens to be long and looped Veils of this type may be associated with such malformations as a nonrotated cæcum

The etiology of these veils has been supposed to be due to an inflammatory process originating in the colon or adjacent structure, while as a matter of fact they are congenital They originate after the totation of the gut from the secondary fusions of the peritoneum, when the cæcum becomes attached to the posterior abdominal wall just over the kidney and under the liver. In some instances these attachments, usually confined to the posterior aspect of the excum and colon, are excessive and extend out over the ventral surface of the first part of the large intestine, resulting, with the subsequent descent of the cocum, in their being drawn out in the form of a thin veil or membrane In this process the blood vessels take part, a fact which explains the long, unbranching course from their origin on the parietal peritoneum, downward and forward into the carcum or colon, where they communicate with those of the intestinal wall. Here the secondary union between the two layers of the peritoneum usually spares the cæcum and extends on to the co lon, and gives rise to the commoner form of membrane Occasionally the excum, and even the proximal portion of the appendix - or, still more rarely, the entire appendix - is covered In such cases, we have the extensive veils which embrace the entire first portion of the large intestine, with the appendix drawn up in the process of descent. In still other instances, the attachments are confined to the region of the cæcum and appendix and thus give rise to the type of veil that covers the caput caci and its appendage

As these are variable in the form of the secondary attachments between the colon and peritoneum, so also does the extent of the fusion between the part of the posterior mesogastrium which gives rise to the omentum vary within any considerable limits Sometimes the embryonic omentum reaches out laterally and fuses with the excum before the descent, and not uncommonly extends into the princial peritoneum. When such a secondary fusion the omentum with it and gives rise to that form of membrane which is continuous with the omentum along the medial aspect of the ascending colon

The great majority of these pericolic membranes are not responsible for any symptoms, and represent simply decided variations in the normal attachment of the first portion of the large intestine Occasionally, when they are extensive or badly placed from a mechanical point of view, they may cause obstruction, especially if any degree of ptosis is present. It is not impossible that they may have thickened as a result of chronic colitis, but in themselves are of inflammatory origin Like Lane's band, the symptoms resemble chronic appendicitis, without a preceding history of an acute attack. There may also be reflex and gastric disturbance. The treatment for most cases is to let them alone, for they are normal but variable strictures For instance where there is evidence of definite obstruction or constriction of the colon, the membranes should be incised along the lateral margin of the colon. In no case should they be stripped, for this proceeding denudes the colon of some of its normal peritoneum

The formation of Lane's band on the terminal ileum is due to a process similar to tast who fixes use to percole membranes. After the bottom of the gut, the terminal leum ordinarily returned the gut, the terminal leum ordinarily returned the gut, the terminal leum ordinarily returned the costs of secondary between inson the cecum and the partial peritoneum extends out for a short distance from the caccum or colon and involves the terminal ileum, resulting mether a partial or total oblitration of the posterior leaf of its mesentery, which thus requires an attachment to the partial peritoneum steelf with the descent of the caccum this fusion may cause the ileum to grow on itself and become kinked

The majority of Lane's bands do not cause symptoms, but some, especially when associated with ptosis, undoubtedly give rise to a symptom-complex similar to that we have come to associate with chronic appendicitis

Another embryonic stricture is sometimes found on the gall bladder, which consists of an omentum mesentery which may reach to the fundus and setted across the transverse colon, when it becomes continuous with the omentum. These peritoneal cluds ordinarily do not cause symptoms, but under unusual circumstances, such as loosening of the supports of the colon, may exert a traction in the gall bladder, which relieves its characteristic pain. They are probably due to the fundus and its developments picking up a fold of the posterior mesograstium in the formation of the greater omentum.

Green: Some Points in Connection with Appendicitis in Children. Practitioner, 1912, lexix, 508

By Surg, Gynec & Obst

Appendicitis is the most common of the surgical diseases of the abdomen in children. Most cases occur after five years of age, it is rare under two

The author regards the appendix as a lymphod structure and therefore an important abdominal organ. Among the interesting causes he mentions threadworms, three cases of which he reports. Of the symptoms, abdominal pain is practically always present, but may be referred to remote regions. In a case to which he refers, the pain was in Scarpa's truigle on the right side. He mentions one case in which severe melaran was present. The diagnosis is not at all easy and in differentiating he must keep in mind pincumonia acute gastrixis, mississis so that all easy and in differentiating he must keep in mind pincumonia acute gastrixis, mississis and the services of the regit ovary may confuse. If melarn is present one must think of Henoch's nurura.

The mortality in children is always graver than that in adults There is very little difference in treatment from that of adults C G Gaules

Stiven. Acute Appendicatis in Children. Practitioner 1912, luxus 527 By Surg Gymec & Obst

In ten years there were 4 000 cases of appendicts at the London Hospital. Up to the age of twelve there were on an average, 83 cases a year, up to seven years old, 20 cases, up to five years old, 6 or 7 cases. The details of the series taken 208 in all, are

Age	Number of Cases
2	6
3	7
4	21
5	46
6	63
7	65

Eleven of these had had one previous attack and three had had a previous operation. Seven cases had had three previous attacks and two cases four

The sex in these children was two males to one female, the same as in the adult. Most of the children's cases occurred in the months of May, August, and September

Facal concretions were present in 23 cases or 11 per cent of 260 cases up to seven years of age there were perforation or gangrene in 31 2 per cent and general peritonitis in 25 per cent In 14 cases operated upon before complications occurred the average stay in the hospital was twenty seven days and there were no deaths. The average mortality in the series was 41 8 per cent

Localization of suppuration is not so common as in the adult Skill and speed in the operator are

most desirable
The Fowler position after operation lowers the
mortality In children, continued saline enema is a
failure. The children cannot bear starvation, and

should be fed such things as albumen water and perhaps a decortion of crushed raisins. Early catharsis is advisable

Twelve per cent of these cases showed complications, which in nine cases proved fatal. The complications consisted of parallytic obstruction, pneumonia, secondary abscess, empyema, etc.

The author sums up the difference between adults and children as follows

"Ouing to their greater liability to a generalization of the infection early operation is more imperative in children. It will be seen from the figures given above that the odds are three to two on the generalization of the infection arising, whereas, if they are operated on within twenty four hours, the mortality, for this series at least, is nothing per cent

"A prolonged operation and undue exposure cause relatively greater risks "In the after treatment certain special methods of treatment will make all the difference between

of treatment will make all the difference between success and failure ' C G GRILFE

Abrami, Brissaud, and Weissenbach: Hæmatogenous Origin of Certain Forms of Acute Appendicitis (Origine hematogène de certaines appendicites aigues) Bull de i Acad de Md., 1912, 1814, 280 By Journal de Chrurgie

A patient 45 years of age entered the Hopital Cochin on A as 17 1912, and typhoid fever was The trouble had begun on May 3d, diagnosed rather suddenly, with disturbances of digestion, fever headache, and a copious diarrhora During the days following, these symptoms became worse On the day of arrival at the hospital the patient presented all the signs of typhoid fever, the tempera ture held at about 40° C, and there was prostration, sub delirium, copious serous diarrhera, and a con fluent eruption of pink lenticular patches laboratory examination proved senticarmia, serodiagnosis was negative with Eberth's bacillus, but positive at 1 5000 dilution with the paratyphoid bacillus and blood culture at two different times isolated the bacillus from the blood

May 19th the general state of the patient suddenly became worse, stool was suppressed, the abdome was very distended and presented a generalized muscular defense and the pulse became very poor. In the middle of the night the patient succumbed in a state of coma, after having previously vomited greenish matter.

At the autopsy the small intestine was found to be in a state of perfect health, and there was not the slightest tumefaction of Peyer's patches or any of the other lymphoid organs. All the lesions were located in the appendar and in the cacum. The appendar was tumefied and soft, it also presented two recroite patches one of which had proved the cause of the fall perinomis. There was the process of the perinomic p

all these lessons the paratyphoid bacillus was found

in very large numbers and in an almost pure state of culture.

The histological examination enabled the authors to establish the fact that the creat walls had been infected by way of the blood. The ecchymotre patches on the excum were made up of a notular infiltrate, which was clearly submicrous and perivasular, this infiltrate was covered with numerous didated capillaries, the openings of which at certain points were obstructed by colonies of biculip insensing the form and staining reactions of the paraty photo bacillus.

The history of hematogenous appendictis has been built up on the anatomical and experimental data of the clinic. All that was lacking to complete the theory of the hematogenous origin of appendictis was corroboration by blood culture. The case here described brings that decisive proof. If we believe that early and systematic blood culture will prove positive most frequently in those forms which vaily in their development are accompanied by grave general phenoment, a hat is in those that begin in the maniner of a general infection, in a large begin in the maniner of a general infection, in a large than the control of the properties of

In two benign cases of acute appendicitis in which diagnosis was confirmed by the operation, the blood culture remained negative ChiroLiau

Hausmann: Palpation of Gastric Intestinal Tract (Die topographische Gleit und Tiefenpalpa tion und ihre klinische Bedeutung) ifed klin., 1912, viu, No. 41 By Surg Gynec & Obst

Hausmann has shown that with exception of the portion adjacent to the ileum, no part of the ileum is palnable. Knowledge of this fact makes recognition of palpated parts easier. Mere pressure or bonng motions of the tips of the fingers are insuffi-Instead, rectilinear sliding motions trans versely to the axis of the part, are to be employed The ends of the various portions of the gastro intestinal tube are fixed. The intervening parts are more or less movable and may evade the gliding motions, but if these motions have a sufficient amplitude the respective part may be fixed finally In case the part recedes towards the posterior abdominal wall, or is very deeply situated deep palpation must be used. The finger-tips gradually sink to a greater depth This progression, as well as the gliding movements, are carried out respective ly at the end of expiration or during the respiratory pause During these phases the abdominal walls are relaxed. The patient should be instructed to breathe deeply with mouth open By observing these instructions one will avoid tension of the abdominal muscles Posture should be arranged so that all the muscles are relaxed as much as possible To avoid fatigue of the palpating right hand, the left is laid upon this and pressure made with the left. Deep palpation may be made easier by pressure from behind (lumbar region). The distance between the anterior and posterior abdominal wall in the psoas region is decreased by active contraction of the psoas muscle, i e., by flexion of the hip, with leg extended at the knee joint Structures situated upon the belly of the psoas - transverse colon, ileo cacal region, appendix, sigmoid flexure - may easily be palpated. The palpation is topographical. not dependent upon the expected location of the structure in an accepted region. One determines in case of tumor if it belongs to a palpable portion of the gastro intestinal tract, and if not, what relation it has to the various palpable portions. The relation of exudates and painful areas may be determined in the same manner Topographical gliding and deep palpation in chronic appendicitis is more rehable than McBurney's point The appendix, if fixed by adhesions or by its mesentery, may be palpated upon the psoas muscle. To differentiate the appendix from the cacal portion of the ileum, it is important to bear in mind the absence of gurgling sound and the lack of change in volume and consistency over the appendix. The ileo cæcal portion has to be palpated before attempting to locate the appendix Isolated pain sensation produced by pressure upon the psoas is very important If the psoas pain is bilateral it is often not significant, unilateral psoas pain indicates organic disease pyelitis, nephrolithiasis, floating Lidney, and cholecystitis, the upper portions of the psoas are more painful, in appendicitis, excum mobile, and sigmoiditis the lower portion. He speaks of contraction of the stomach and when it may be recognized - by pylorospasmus, gastrospasmus, or gastrosta-Local accumulations of faces are frequent in the cacum and sigmoid flexure, also in the right portion of the transverse colon If these accumulations are met with persistently, one may assume it to be due to pathological obstipation In other cases of obstipation the colon may be entirely empty. as may also the ampulla of the rectum This may be due to increased absorption in the colon (Schmidt), or more likely to atony of the small intestine (Schwartz), with delayed evacuation into the excum The colon may be in a state of spastic contraction of the thickness of a lead pencil Hausmann, however, does not take this as proof of the existence of so-called spastic obstipation recommends the same maneuvers for massage of the colon (palpatory massage) E C RIGHT.

Dowd Acute Phlegmonous Inflammation of the Large Intestine. Ann Surg, Phila, 1912 lvi, 579 By Surg, Gynec & Obst

The writer presented to the New York Surgicial Society a man 23 years of age, who had suffered from an extensive phlegimonous inflammation of the greater part of the descending colon. During the past year he had had occasional attacks of pain in his left side. The pain became severe two and one half days before admission to the hospital and for the past 24 hours had been extreme, and had been

accompanied by bloody stools, just before admission to the hospital he had passed a large amount of He was much prostrated, blood by the rectum complained of great pain, and had muscle spasm on the left side of abdomen, pulse 92, temperature 98°. Through an incision it was seen that the descending colon, from splenic flexure to sigmoid, was intensely indurated, red, and rigid. An anastomosis was made between the middle of the transverse colon and the sigmoid, and the intervening portion of the colon was removed. The patient made an excellent recovery. The excised portion of intestine showed acute suppurative inflammation of the intestinal wall, with numerous groups of gram positive cocci in the submucosa

The author had not found a similar case reported, although there are references to a "fatal and obscure form of necrotic colitis which appears to be septie in character." Phlegmonous inflammation of the wall of the stomach has been described many times. The port of entry has usually been a gastric ulter, so per cent of the reported cases have been fatal.

It is believed that this phlegmon of the colon corresponded to the cases of phlegmon of the stomach, an abrasion by facal masses or a duerticultis providing a place for the entry of the in fective cocci. The condition of the blood vessels showed that it was not a mesenteric thrombosis

Vianney: Nine Cases of Partial Resection of the Colon for Cancer, Fire of Which Were Performed at One Time (Neu Cass de résection partielle du colon pour cancer, dont cinq et un temps) 26th Cong 1 Ass fran de Chir, Pars Oct 9 1912

By Journal de Chirurgie Vianney offers the following statistics on the resection of the large intestine for cancer

The resection occurred at the following locations once at the right flevure, once in the transverse colon, once in the left flexure, three times in the descending colon, and three times in the pelvic colon. In footing unstances the resection was performed in different stages, with two deaths resulting, five times color tomy was done in one stage and these five patients.

have recovered

The author uses these five cases which have The author was the service of the case of the treatment of the colon whenever the tumor the case of the colon whenever the tumor meeting obstruction Only in these complicated cases, and also in cachectic patients, must the operation be performed in two or three stages (the method which not so long ago was considered the method of choice)

The technique comprises the following essential points laparotomy, free excision of the tumor, immediate enterorrhaphy, and closing the stomach without drainage

Enterorrhaphy is made with silk in two layers and should by preference be end to-end. In case of too great an inequality in the caliber of the two ends, or in case of extreme shortness of one of the segments, lateral anastomosis, after closing the two ends, or termino lateral, after closing only one end, may be performed

Jianu: Intra-Abdominal Myomaphy of the Lerator Ani in Rectal Prolapse. Deutsche Zische f Chir., 1912, cxviu, 592 By Surg., Gynec & Obst

Prolapse of the rectum is due to two causes (a) abnormal depth of Douglas' space of congenital origin, (b) primary or secondary weakening of the pelvice floor Zuckerkandl Claims that every rectal prolapse is due to a primary herina of the perineum cloops of egir prolapse into the rection-issed space in and Rational treatment has to consider the ward. Rational treatment has to consider the following points Suture of the levator an, firation of the abnormally long pelvic colon, and closure of the recto's again of rectowescien space, respectively Jinus suggests to carry out all procedures through the abdomen, instead of partially through the

Techaque Trendelenburg position, (1) reduction of rectal prolapse by traction upon the pelve colon, (2) transverse incision of the peritoneum of Dough's pouch and exposure of the leviator am, disturbment men and vagina in women, respectively, (1) stutte of the muscles, the soutures also pass through the muscular portion of the antenor rectal will, and the last soture transverses the prostate in man the vagina in woman (1) colopers, and closure of the muscles and colour of the color of the color

LIVER, PANCREAS, AND SPLEEN

McDill Bloodless Surgery of the Liver J Am W Ass, by 1283 By Surg, Gynec & Obst

The chief difficulty which the surgeon encounters in liver surgery is the control of hamorrhage, and, although numerous methods of hamostasis have been proposed no one method has proven universal-

ly practicable for the great variety of liver lesions By means of experimental work, in which he used the ordinary instruments present in every operating room, the author hoped to add to our knowledge in this field of surgery His method consisted of an ordinary abdominal incision and a second one inch incision below the costal margin in the right axillar) line, through the latter opening he passed an ordi nary enterostomy clamp armed with rubber tubing One branch of the clamp passed through the foramen of Winslow behind the pedicle of the liver, and the other in front of the vessels for a distance of about two inches The compression was made near the duodenum, because at this point the vessels lie close together

The experiments on a few dogs showed that no deleterious results followed complete interruption for 20 to 30 minutes, and it is believed that in chincal use one can render the liver bloodless for at least 8 to 10 minutes More work along these lines, honever, both experimental and clinical, is neces sary before the time limit for safety in complete arrest of creudation can be accurately ascertained. To avoid too long compression, the claimp can be loosened and this permit a partial circulation. Dangerous back, pressure in the portal system is manifested by great congestion of the intestinal wessels, blueness of the gut, and by peritoneal exchymous. The claimp can be left in situ after an operation to control a possible secondary higher

When the resection of liver is extensive and the tension on the sutures is liable to cause them to tear through the liver substance it is proposed to pass a Martin gum bandage completely around the liver, thus favoring approximation

Enverso H. Messesa

Deaver: Surgery of the Bile Ducts N 1 St J

By Surg , Gynec & Obst W . 1012. XU. 400 Deaver stated that through the work of surgeons and laboratory men, it has been shown that with the exception of malignant disease all conditions calling for surgical interference upon any part of the biliary tract have their origin in infection No one form of disease of the biliary tract can be identified with a particular organism. In a series of 142 operations in 1011 on biliary tract, for various lessons, 34 showed B coh, 50 no growth 46 not mentioned, 2 B typhosus, 7 staphylococcus 1 streptococcus, r B pyocyaneus r B aerogenes Even in presence of pus, some cultures showed no In 182 cases of cholelithiasis which were reported by him in 1006, as were cultured and 13 of these showed B typhosus

The portal circulation is the most common route taken by these organisms in reaching the bilary tract. He criticised the classification of bilary tract infection as one of declaring ears introducing statistics from his cases showing the average age when the condition was known to be present to be 31 years. Low grade infection by micro organisms cuttly attenuated giver size to gall-stone disease greatly attenuated giver size to gall-stone disease.

Gall stone formation is the most common result of infection, especially where it is of the low grade catarrhal type. Adhesions were present in 45.4 per cent of his cases, and were due to pericholocystic or periduodenal inflammation. In some cases they gave rise to a chinical picture identical with that found in gall stone disease.

Chromic pancreatitis is so commonly found coextreme that biliary infection that it may truly be considered a part of biliary infection, the infection most likely extending by way of lymphatics. Pan creatic disease demands either temporary drainage of the biliary tract by direct tube drainage, or permanent dramage by some form of anastomosis between the binary system and the alimentary canal. All cases of infection of binary passages, unless very transient or coming as intercurrent affections in acute illness, demand dramage of the gall-bladder. Of these, any that show marked infection or a cholangitis demand common duct dramage

Indications for operation in disease of the biliary

- More than one attack of true biliary colic Symptoms suggestive of upper abdominal
- 2 Symptoms suggestive of upper abdomina adhesions and chronic biliary insufficiency
 - 3 Hydrops of the gall bladder
 4 Obstruction of the common duct
 - Occurrence of acute infections complicating
- previously existing biliary disease
 6 The evidences of pancreatic disease, acute,
- subacute or chronic

 In conclusion the author emphasized the danger
 of procrastination and too much deliberation, and

insisted that nine tenths of the mortality of operation so called, was in reality mortality of delay, R. W. McNeary.

Brandt The Construction of an Artificial Choledochus by Means of a Simple Drainage Tube (Die Bildung eines künstlichen Choledochus mittels eines einfachen Dranrohres) Deutsche Zische f Chir., 1912, cxix I By Surg, Gynec & Obst

The construction of an artificial choledochus with a simple drainage tube is indicated in all cases where anastomosis is impracticable or impossible, it is an ultimum refugium where a connection of the hepaticus with the intestines is otherwise impossible simple drainage tube is inserted with one end in the hepaticus and the other in the duodenum. The tube should not reach deep into the lumen of the duodenum and should be carefully covered with omen-The author reports five cases in which this reconstruction of the choledochus was performed at Wilms' clinic in Heidelberg In the first two cases a heavy silk thread attached to the upper end of a tube led through the choledochus into the duodenum and from there out through the abdominal wall In the first case it had to be left in place, the thread being pulled out alone, in the second it was removed through the abdominal wound Case 3 threw the second tube up by vomiting after the first one had been replaced for insufficiency. In the fourth case the tube, with its lower end inserted into the stomach, was thrown up by vomiting three months after the operation, and replaced by a second one, which was fixed with catgut and carefully covered with omentum In the fifth case the tube was fixed with catgut and covered with omentum to be left in place The first three cases required a prolonged after treatment, the tube being free in the abdominal cavity and uncovered by omentum thus allowing the escape of bile In all cases the operation proved to be life saving, and the success in the first two cases was ascertained to be

absolute 14 to 15 months after the operation. It is a matter of oninion whether it be justifiable to substitute this operation if anastomosis is possible,

Williams: Transduodenal Choledochotomy for Stone in the Ampulla of Vater, with Fistulous Communication Between the Gall-Blad. der and the Duodenum Ann Surg, Phila, 1912, lv1, 575 By Surg , Gynec & Obst

The author recites the case of a female of thirty two years, who presented symptoms of common duct obstruction with but slight jaundice and with history of a violent attack of gallstones three years before

Operative findings were Organized adhesions covering a shrunken and thickened gall bladder. whose body was crossed by a strong adhesion band leading from duodenum to liver, fistulous communication three eighths of an inch in diameter between the fundus of the gall bladder and the duodenum (demonstrated effectively when the duodenum was opened later) no stones in the gall bladder in henatic duct or in free portion of common duct a stone the size of a cherry was removed from the ampulla of Vater by the transduodenal route this method being selected owing to the obscuring of the area by oozing from torn adhesions. Uneventful recovery of the patient

Points of special interest are Obstructive jaundice in the face of an effective fistulous communica tion with the boxel. This was probably due to frequent mild attacks of cholecystitis with ordema tization and consequent closure of the tistula plus effects of the adhesion band Jaundice was never at any time very deep and this would tend to substantiate this supposition Secondly the method of management was unique in view of the fact that the gall bladder was neither removed nor drained the latter being the universal custom apparently In this case so far as infection was concerned there seemed no indication and even had infection been present except of a severe nature an additional good opening was present for drainage. Here it would have been necessary either to remove the gall bladder and close the fistula in the bowel or the bladder might have been left its fistula and that in the bowel closed, and then gall bladder drainage made It was out of the question to drain the bladder with the duodenal fistula opened Therefore, for the benefit of the patient, from the viewpoint of time and shock saving the gall bladder with its fistulous opening into the duodenum was allowed to remain as it was, simply severing the constricting band and covering raw surfaces as much as possible

De Bersaques. Hæmorrhagic Cyst of the Pancreas (Lyste hématique du pancréas) J Méd de Brux, 1912, 442 By Journal de Chirurgie

The author reports the following case II, 50 years old had since 1892 presented slight dyspeptic symptoms, in 1905 he suffered from obstinate

diarrhœa after meals, in 1907 a slowly developing tumor appeared in the upper part of the abdomen without any appreciable changes in the general condition In May he once more felt violent pains in the uppert part of the abdomen Diagnosis of peritoneal extravasation was made. After a Carls bad cure, emaciation became very marked, while

pains persisted in the region of the waistline In August, 1908, when a diagnosis of tuberculous peritonitis had been arrived at, a puncture was made and 500 gr of colored fluid drawn from the peritoneal cavity, examination showed that it was of non tuberculous character. The nuncture was followed by active pains in the abdomen further examinations a treatment with light baths was tried and brought about reduction of the volume of the abdomen In 1909 and 1910 the nationt had hamatemeses which weakened him very

On November 10, 1910, De Bersaques examined the patient, who was then very much emaciated, and found the following facts. The abdomen presented considerable distention, with the superficial venous plexuses very clearly marked, the distention was rather regular. Under palpation it gave a dull percussion note throughout its whole extent except in the left upper region, there was also duliness. though less distinct on the right side below the that fossa The duliness of the upper part merged completely with that of the liver. There was no ballottement in the renal region. Phlebitis of the

right leg was present Dinenosis was undecided as between cost of the mesentery and cyst of the pancreas On November 23d in view of the gravity of the patient's condition, De Bersaques operated He found a evetic tumor which when punctured gave forth a reddish liquid He made an incision of the cyst emptied it of its contents and found that it had developed between the stomach and the transverse colon successful in completely discugaging the cost and in fastening its nutritive vessels. Closing without drainage, lasting cure

It is to be deplored that neither a histological examination of the wall of the cyst nor a physiological and chemical examination of the hould was made in connection with the case

PALL MATRICET

Gray and Anderson Developmental Adhesions Affecting the Lower End of the Heum and

the Colon The University Press Aberdeen Scot-By Surg , Gynec & Obst land, 1012 Under this heading are included four adhesions

known as the following (1) Lane's terminal ileal kink, (2) Jackson's membrane, (3) splenic pericolic adhesions (4) mesosigmoid adhesions

Lane's kink is caused by a quadrilateral or triangular shaped membrane extending from the right iliac fossa to the antimesenteric aspect of the ileum, and attached to it for from 11/2 to 4 inches The effect of this membrane is to cause a kinking of

the small intestine and a rotation on its long axis in a downward direction

Jackson's membrane is a vascularized membrane extending from the partial pertinenum near the hepatic flexure to the internal longitudinal muscle of the ascending colon, ending just above the caput Associated with this membrane there is sometimes a narrowing of the colon in the rigion of the hiptice of flexure, resulting in distention and ptosis of the ascending colon and agreum

Splenic kink, sometimes called Payr's disease is due to a short, tense phrenocolic ligament. The obstruction is apt to be more acute in this region, and results in marked distention and prosis of the

transverse colon

Lower sigmoid or mesosigmoid adhesions extend from the left iline fossa to the mesosigmoid or less

commonly, the sigmoid

As to the origin of these different adhesions there are several theories. Lane believes than to be due to chronic constipation. Morris, Binnic and others believe them to be due to pericolic inflammation. C II Mayo believes Jackson s membrane to be due to a congenital process formed when the excum descends from under the live.

All of these theories are objected to by Gray and his idea is that the adhesions are caused by an

excess of "physiological fusion "

The symptoms caused by the adhesions in questions are of acute and chronic nature. The thronic symptoms are both general and local. The general symptoms are those of autointoxication such as staining and winkling of the skin excessive sweating, enfectbed circulation with cold extremities.

slight temperature, loss of flesh, muscular degeneration, enterpoises, dulling of the mental faculties, with restlessness during the night, headache, painful joints, and cystic degeneration of the breasts, which is apt to be followed by cancer. The local symptoms are heavy distended feeling in the abdomen, slight tuninges of pain, borborygim. Constipation is usually present and of long standing. X-rays may show a distention of the intestinal tract proximal to the obstruction.

Acute symptoms vary greatly in intensity. Pain and tenderness become more severe than formerly, and rigidity is often present. Symptoms of com-

plete obstruction may develop

The diagnoss is often difficult, but strong suspricons as to the true difficulty are often aroused when the long history of the trouble is considered together with the whole picture. The erroneous diagnoses most often mide are appendicular color, duodenal or gastric ulere, chronic intussiception; morable kidney, renal color, tubo-ovarian disease; cancer of the colon, mucous colitis

The treatment adopted should be surgical, with the division of the offending membrane and covering of the raw surfaces with pertinenum. The pertinenum is usually sutured over the raw surfaces with very lattle disficulty, but occasionally it is advisable to use a part of the omentum in covering over the raw surfaces. Where extensive adhesions are present, an

eleocolostomy or eleoproctostomy may be necessary. The prognosis is good as to the recovery of good health. Constipation is usually entirely relieved A few cases have had occasional attacks of diarrhem

Hacks of diarrhora

SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS, ETC klemm: Acute Osteomyelitis of the Pelvis and Sacrum, together with Four Cases of Osteomyelitis of the Vertebra: (Die akute Osteomyelitis des Beckens und Kreuzkuns nebel 4 i allen von Wirbelostomyelius). Beitr: £lin Chr., 1012 | 1882.

Bestr : klin Chtr , 1912 lxxx By Surg Gynec & Obst

Among 1469 cases of osteomyelitis collected from the literature, there were 24 cases involving the pelvis Klemm's percentage was higher he having 269 cases of osteomyelitis among which there were 40 pelvic cases Nearly half of the cases occurred in children from eight to twelve years of age Seventy per cent of the cases were the result of a staphylococcus infection. The ilium is the bone most frequently involved, 26 of the 40 cases occur ring in this bone. There was either a diffuse soften ing of the entire medulfa or a circumscribed abscess The old teaching that suppurative osteomyelitis has its seat of predilection in the shaft of long bones, and that tubercular infection takes place in the eniphyses of long bones and in flat and spongy bones, can no longer be maintained. It has been conclusively established that a staphylococcun infection will move not only the epinhyses, but the flat and spongy bones. In fact the two processes are at times very difficult to differentiate clinically, or even pathologically. In sacral osteomy elitis the sacro lanc point may be implicated, the same being started in the posterior portion of the ilium is the seat of the theory of the control of the control

The general symptoms of osteomyelitis of the pelvic guide are those characteristic for this disease elsewhere. There is the same profound intorication which is so characteristic. Later on, abscesses are formed, which point at various places within and outside of the pelvis. Larly treatment is very essential and should be most radical. The entire

diseased area should be exposed and removed no matter how much of the hone is thereby sacrificed William Hessert

Fraser: The Relative Prevalence of Human and Bovine Types of Tubercile Bacilius in Bone and Joint Tuberculosis Occurring in Children J Lep Medicine, tox3, xvi 43; By Surg., Cynec & Obst

I riser here presents a report of a study of yeares of bone and joint tuber tudous, in cases were of joint divease; at of bone disease. We have the state that were to go and the state to the state to see the state to the state

The results of these studies showed that of of schildren at (6) per cent) were infected with the bosine type, 23 (34 per cent) with the humin and 3 with both 4; of these cases are under 4 years of age and of this number 20 (20 + per cent) showed the bosine type. In 21 instances a history was obtained of pulmonary, tuber allows in the patients family human type of bacilliss was recovered as contrasted with 27 per cent humin type for those patients who gave no such family history.

Tracer concludes that a large proportion of joint and bone tuber ulosis occurring in Edinburgh children is of the bosine type and points out that his risults are proof of the condition of the milk supply [Jawrs 1] Citemia.

FRACTURES AND DISLOCATIONS

Worms and Hamant Erretures of the Neck of the Femur in Childhood and in Adolescence (Les fractures du col du fémur dass Lenfance et dans Ladolescence) Ker de Chie (1912 Alyn 440

By Journal de Chirurgie

After being for a long time confused with separation of the piphysis, the frequency of the neck of the femurare now found to be more frequent in child hood and adolescene than we have so far believed

hood and adolescence than we have so lit believed Worms and Hamant judging by their radiographs and experiments on the dead bods, even believe that in young people these fractures are quite as frequent

as separation of the epiph) sis
The fracture may occur at all ages but the periods

of prediction are adoks tene and old age and in young people the years from 10 to 18

The fracture is nearly always due to direct causes and in those sometimes the cause is insignificant, in such case we must grint a special fragility of the bone tissue. I inally a decrease in the angle of inclination of the neck, a primary coxa yara, may possibly create a predisposition for this fracture.

I ractures of the base of the neck (and these are

sufficiently common to be distinguished from separation of the epiphysis) occur most frequently in young people. Finally there is a variety of maked fractures which include complicated separation of a bone-planter either supracervically on subcervical

ly, and constitute a distinct variety of fracture
l'enetration is rare in complete fractures. But
it is not rare to observe incomplete or greenstick

fractures and the subperior end fractures in general which here as elsewhere occur especially in youth. The seriousness of complete fractures results entirely from their serious union, this leads to trochanteric cora varia, a type to be contract with essential cora varia which is chiefly certified. Pseu-

darthrosis is crite.

The incomplete fractures, however, so far as their origin is concerned, probably must also be closed with the forms of cora vara called essential. The disturbances of growth to which they give nice may lead even to a cora vara characterized by curn title.

of the whole superior epophysis
In absence of symptoms in general characterizes
these fractures. Importance deformities, and pain
are often absent, so that it is only by radiography,
which must niver be neglicited in these injuries
that the diagnosis can be made.

We may however find vight eachy mova in the whole may however find vight eachy mova in the control of the head as may not endetens and turned use the trainers of Single at the external honder of the artificial sea of Single at the external honder of the artificial sea of Single at the external honder of the artificial sea of Single at the external honder of the artificial sea of the season o

Incomplete fractures can be disgnosed only with

the aid of radiograph.

The prognosis in all these fractiones depends upon orthogodic complications, which are rather frequent, among these complications is the development of cota vari of one of the types described above Vicious and explicant callus is the result of an exacertated process of retail.

The condition which most frequently has to be differentiated is simple contision and every contision of the bip in young people should be radio griphed. Distinction from separation of the epiphysis is often a deficate matter, the immediate symptoms are however its marked than in fracture Luxations remain to be differentiated, but that in general is more easi.

If the mjury is old the fracture must be differentried from corn viri, this is done by the citology of the condition. Diagnostic distinction from congential dislocation is possible by the presence in the fitter of displacement of the head of the femur, distinction from coralgia is possible by the presence of a curvature of the femur.

Treatment has during the last few years undergone an interesting development. Its aim is above all to avoid coxa vara. If the fracture is recent and incomplete, treatment consists in a rigorous immobilization, with extension, walking must not be permitted until late, in order to avoid throwing weight on a callus before it has become very resistent

If the fracture is complete perfect reduction is essential for the re-establishment of normal function Experimentation and clinical experience have shown that the best position for immobilization is adduction and internal rotation

The open treatment is indicated in the juxta epiphysary fractures with extensive lacerations of the cansule Between tixation by means of inserting a medullary neg without arthrotomy and arthroto my followed by plating and enclosing in a plaster cast, the authors give the preference to the former of these operations

If the fracture is old at is above all the treatment

of core years which is called for. This means esteet omy of the neck and resection of the head but the operation which seems to give the best results is horizontal osteotoms or oblique subtrochanteric osteotomy, which has the advantage of being extra capsular. The treatment of pseudirthrosis does not differ from that of pseudoarthrosis in the adult

Gelinsky Fracture of the Patella Zentralbi I Chir , 1912, XXXIX No 45 By Surg Gynec & Obst

Early movement is essential in the after treatment of fractured patella to overcome the tendency of muscular contraction and contraction of the soft parts, producing a stiffening of the joint author constructed a splint which permits graded flexion and extension of the knee joint without change of position. The splint represents a double inclined plane with ratchet attachment at the angle It is connected with an endless screw running in the base of the apparatus. The thread of the screw is very fine and the attached handle very long \s a result the movements may be graded in fractions of a millimeter Flexion gradually stretches the muscle, if a sensation of tension occurs flexion is at once stopped The muscle soon accustoms itself to the new position and tension ceases or 15 minutes all disagreeable sensation is gone and further flexion can be begun. The exercises may be continued in this manner for twelve hours or more At the close of the exercise the space traversed during the day is gone over rapidly several times by turning the handle backwards and for-Gelinsky describes two cases in which the bone suture cut through the bone after operation In the first, a second suturing was done while in the second, a metallic clamp resembling that of Mal gaigne was applied subcutaneously The clamp remained in situ after the patient left the bed, and was removed 22 days after operation emphasizes the importance of exact suture of the extensor apparatus and the relative unimportance of the bone suture. In further cases he would dispense with the bone suture and substitute this with the clamp, after exact opposition and suture of the connective tissue bands constituting the ex tensors The clamp permits immediate movements. eliminating the possibility of breaking or cutting In case of loosening the clamp can be tightened. The prongs of the clamp are anchored in the patella and do not protrude into the joint. They may easily be kept aseptic. The splint has been used with advantage in inflammatory affections of the knee joint, especially in gonorrhocal inflammations

Martin: Injuries to the Semilunar Cartilages: A Personal Experience of 449 Cases of Operation. Lancet, London, 1912, clxxxiii, 1967

By Surg . Gynec & Obst.

Between the year 1000 and the year 1011 the author has operated upon 440 cases (413 hospital and 36 private) diagnosed as suffering from injury to the semilunar cartilages The author is not satisfied that there is ever a true detachment, for even where the split is very near the attached margin a narrow rim of cartilage still retains its normal position. In the present series of cases, os s per cent of them showed definite splits or tears. so that only in 45 per cent there was no definite pathology

Coal miners are the most frequent sufferers from the torn semilunar cartilage, and in the present series out of 440 cases, 282 occurred in miners while following their employment This gives a percentage of 62 8 This he explains by the fact that the coal miner performs his work with his knees more or less flexed Football players are also very liable to the accident Out of the 449 cases, the accident occurred 81 times while playing football, a percentage of 18

The internal semilunar cartilage is much more often injured than the external, the former shows a percentage of 92, while the latter shows a percentage The right knee is slightly more frequently affected than the left, the percentage of the one being 53 3 and the other 46 7 Sometimes it is impossible to diagnose whether, in the case of an injured knee, the internal or the external semilunar

cartilage is at fault

The majority of sufferers from torn semilunar cartilage give a very typical history first sees the patient the primary tear occurred months or years previously, and the subsequent attacks of "something going wrong with the joint" have been comparatively slight, consisting perhaps, of little more than experiencing a click or a snap at the inner side of the knee with pain in the same situation Then momentarily the joint locks, and suddenly, after moving the knee himself or somebody moving it for him, another click or snap is experienced, and full power of movement is regained When the primary tear takes place the symptoms are more severe The best time to operate is after the first week or ten days following the primary accident.

Previous to and during operation the most rigid antiseptic precautions are called for. The incision used is a transverse one, extending, in the case of the internal cartilage, from the inner border of the patellar tendon backwards for about two naches in the line of the articulation. In every case the author tendors to not high the databet piece of cartilage, but endeviors to ablate the portion still retaining its enders are ablate the portion still retaining its onermal attachment, and sance doing this he has had no pattent return with recurrence of symptoms. No spillut is used, and the patient is told to commence to move his knee as soon as he can Infirmary patients are discharged as a rule on the tenth day, being then able to carry out full movements of the nont.

After history Except in a very few instances, patients have been quite satisfied and have told the author that the joint was as strong as ever. Where the operation has been upon amateur or professional football players it has enabled them to play again, and many of them are still playing.

DONALD C. BALFOUR

Ross and Stewart A Study of Sprain-Fracture as an Essential to the Occurrence of Dislocation. Ann Surg, Phila, 1912 Iv1, 599 By Surg, Gynec & Obst

Ross and Stewart contend that the integrity of joints depends on the ligaments which are made of white fibrous connective tissue. This tissue is inelastic and the strongest tissue in the body When the breaking strain necessary to produce luxation occurs, it is the bony and periosteal attachment of the ligament that gives way and not the fibers themselves, thus producing the sprain or tear fracture. They have attempted to prove the contention by 38 experiments on hving dogs 14 on the cadaver, and by X ray pictures of all luxations taken in several planes. In every instance a sprainfracture was demonstrated and in no instance were the braments torn or stretched They believe, therefore that sprain fracture is the first step of, and an essential factor in the production of luxa tion Therefore all luxations should be treated for a longer period than is usually the case and the limb should be dressed in a position to favor the reduction of the fracture and the coaptation of the broken surfaces Their conclusions are

t Practically all if not all dislocations are permitted by the primary occurrence of strain of tendons and ligaments, followed by avulsion of tendons, and then sprain fracture or gross frac-

- tendons, and then sprain fracture or gross fracture

 2 It is possible that some dislocations are per mitted to occur by separation of the fibers of the
- capsule in place of by sprain fracture or gross fracture
 3. All dislocations should be skiagraphed, and if
- evidence of fracture is not found at first pictures should be taken in many planes 4. All dislocations should be treated as if fracture had occurred even in the event of negative X ray
- evidence
 5 Some sprain-fractures are too small to be shown by X ray pictures

 Often there is spontaneous reduction of dislocations, and sprain fracture or gross fracture is the only evidence left that can be detected by X-ray

7 The sites of sprain fractures or gross fractures provide the foci from which the osteoblasts issue, in those cases showing excessive callus or covering of joint surfaces with osseous tissue, moreover, the softer tissues found in joint cavities within a short time after the occurrence of dislocations are often some stage of transformation into bony tissue.

and a superior transmission of the superior t

o Whether the force be suddenly or slowly applied, sprain fracture or fracture precedes the occurrence of practically all if not all dislocations

Vaughan. Central Dislocation of the Femur. Surg, Gynec & Obst., 1912 x1, 240 By Surg, Gynec & Obst

Vaughan has collected from the literature 25 "clear" cases of central dislocation of the femur, to which he adds one of his own and 39 "doubtful" The symptoms closely resemble those of impacted fracture of the femoral neck from which it is distinguished chiefly by the X ray or by feeling through the rectum the head of the femur in the pelvis. In the 26 'clear" cases the mortality was 30 per cent and of the 18 recoveries only 3 were perfect as to function In 37 'doubtful" cases the mortality was 47 per cent If the usual methods fail to reduce the dislocation open operation is advised. This had to be done in Vaughan's case The head and neck of the femur were exposed, and attempts were made by traction and manipulation to withdraw the head through the ring of acetabuhim which fitted closely around the neck and had to be pried open with a lever before the head could be withdrawn

SURGERY OF THE BONES, JOINTS, ETC

Dujarier The Open Operative Treatment of Recent and Old Fractures (De Intervention sangiante dans les fractures récentes et anciennes) 25th Cong de I vis fran de Chir October 2012

By Journal de Chirurgie

Since his communication of last year, Dujarier has operated upon 24 fractures of long bones. 16 of the leg, 4 of the forearm 2 of the humerus, and 2 of the femur. Thirteen of these fractures were recent; 1s were old. In treatment of fractures of the leg, he insists upon a few details of technique. Almost all of these fractures were oblique some were hooked,

some were looped Dujarier believes that, when practicable, looping with a strong copper ligature gives a stronger and a more solid coaptation. In a few cases, reduction was so perfect that the radio gram failed to show the line of fracture When the two loops are well tightened it is needless to apply a plaster cast A simple dressing suffices and massage and mobilization can be commenced within a few days For the reduction of leg fractures he makes use of Lambotte's tractor Especially in cases of absolute non-union, where powerful traction is necessary, has he found this instrument very

There were three non united fractures and one recent fracture of the forearm. In these fractures of the forearm, Dujarier concerns himself only about the radius When this bone is well reduced the ulnar fragments spontaneously come in contact and it is needless to act upon the ulna In each of these four cases he obtained coantation with a single hook The hook gives to a sutured bone a perfect rigidity secures to the radius its normal internal concavity and restores the integrity of the interesseous space The late results were excellent consolidation being obtained in from 35 to 45 days Pronation and supination were retained and patients could resume work

Only two cases of fracture of the humerus were operated upon One was a case with fracture of the surgical neck, with displacement inward of the mner fragment Reduction was effected and main tained by the introduction of a book union resulted in 25 days The other was a fracture of the lower third, with displacement forward of the lower fragment Reduction in this case was maintained with a single hook and union was complete in 40 days In his two fractures of the femur, one recent and one old, reduction was obtained and fixation effected by two hooks These cases were operated upon recently, and the author is not ready to report the results

In general conclusion Dujarier says that in his cases he did not employ drainage and that he al ways obtained healing by first intention He believes that by operating with gloves by scrupu lously keeping the fingers out of the wound and by delaying intervention until the soft tissues have somewhat recovered from the immediate effects of the accident, one can expect and obtain healing by first intention The fate of the foreign metallic bodies varies The hooks may usually be left in place indefinitely It is almost always necessary to temove the loops of copper wire Dujarier removes them about the thirteenth day, when consolidation is established All of the recent fractures of the leg were consolidated in from 30 to 35 days The con solidation of pseudarthroses is slower taking from 50 to 60 days or more At the end of two months. in cases in which union is not complete, the limb is immobilized in salicylate of soda bandage and the patient is allowed to walk. The only accident noted was an ulcer of the leg developing at the level of the

operative wound for an oblique fracture. This ulcer was accompanied by an eczema Both ulcer and eczema were completely healed at the end of four months I DUMONT

Taylor. Progressive Curvature of the Radius (Madelung's Deformity) Corrected by Oste-otomy Med Record, 1912, IXXXII, 752 By Surg , Gynec & Obst

Progressive curvature of the radius occurs mostly in girls of eleven or twelve years of age, and is usually bilateral, it is sometimes a familiar disease The etiology is unknown It consists of a progressive bending of the radius, concavity forward, the carpus and hand are carried forward with the radius, simulating an anterior luxation, but the ulna owing to its loose attachment to the carpus, remains in its original position making a projection on the dorsal aspect. The shaft of the radius is also bowed away from the ulna, increasing the inclination of the epiphyseal line The radial curve may be mostly at the distal end or it may involve most of the shaft If the deviation is low down, wrist motion and rotation may be more or less blocked There are varying degrees of pain, tenderness, weakness and disability, and the deformity is always The affection progresses for a year or two, after which it becomes fixed and painless Deformity may be corrected and function restored by a cuneiform osteotomy of the radius one inch above the wrist, moderate hypercorrection, and fixation in a splint for four weeks Gentle massage and passive movements may be begun in two weeks after the operation

A successful result is reported in a girl of fif-

Desmarest: On the Treatment of Traumatic Separation of the Lower Epiphysis of the Femur, in Particular by Apposition with Plates and Bone-Screws (Sur le tratement du décollement traumatique de l'épiphyse inférieure du femur, en particulier par la suture à l'aide de plaques et de vis) Ret d Chir, 1912 xxxii, 517
By Journal de Chirurgie

Simple separation of epiphyses generally lends itself to reduction and immobilization, but it is not uncommon to observe separation associated with vascular or nervous complications or with a wound which establishes communication between the focus and the exterior In this last case open intervention may be necessary, but before proceeding to it the more conservative methods should first be resorted

Though it is granted that reduction is the rational treatment for simple separations of the epiphyses, it does not mean to say that this reduction is easy or even always possible Cases of false reduction are not exceptional, and manifest themselves late through disorders that are to be considered grave from the point of view of the growth of the lower member

Desmarest does not believe in the efficacy of reduction by extension, nor of immobilization in continued extension, the method of reduction in continued extension, the method of reduction in festion with immobilization in this position is certainly preferable, but immetimes it is not well borne and at other through the results are not all that could be desired. Led by the critical study of his results, Demarkon of the capables of the lower extremity of the ferms only in certain cases and after provin failure of bloodless methods.

He gives the preference to the lateral incision since it is less multilating. He also believes that it is preferable for insuring immediate faction of the fragments. In one case he employed aliminium fragments in one case he employed aliminium casily modified to fit the fragments requiring coapitation and are held in place by lone servas which are adjusted about the cartilage at the point of juncture. The results obtained by Desmarcist under these conditions drite back a year, seem satisfactory and appears to be still improvement.

Payr The Operative Treatment of knee-joint Ankylosis treh f klin Chir, 1912 xxix By Surg Cyrice & Obst

The bloody mobilization of an ankylosed knee joint is an operation which is technically difficult in its indication very subtle in its after treitment very tedious and laborious but very gratifying in its result. The original idea came through Helferich Hoffa, Murphy and Payr were instrumental in mak Payr favors the interposition of ing it popular tissue and does not think that the transplantation of a whole joint (Lexer) promises as much. He fayors the use of pedicled flaps and uses free flaps only in secondary operations. Three points are of importance for the success of the operation exact indication (2) good technique and (1) offit cient after treatment. The operation is indicated in southful individuals not in children and in people who are willing to undergo the inconvenience of long treatment who still have a good muscular annuratus and in whom the primary disease which led to the ankylosis is entirely cured. This explains the contraindication where disease persists gen diagnosis is paramount The technique is The author uses no constriction but ties every vessel, opens broadly the capsule, and removes all cicatricial tissue and such parts of the capsule and joint as may interfere with free motion. He models the joint surfaces to form mechanically free joints then interposes a pedicle of the fascia lata over the femoral joint surface and closes all inci-The after treatment consists in early, gradual motion and passive exercise, always with the view of not disturbing the skin cicatrix Too long rest and too little excision of soft parts are responsible for poor results Payr's results were CARL BECK gratifying

Stuckey The Free Transplantation of Rone in the Treatment of Pseudarthrosis (Ceber die free knochentransplantation bei der Pseudarthrosenbehandlung) Beite z klin Chie, 1912, ktx t By Surg. Gynec & Obst

Displacement of the fragments and interposition of soft parts are among the frequent causes of non-union Such cases have been treated by freshening the ends of the bones in various wass, by wedging one fragment into the medullary cavity of the other, or by one of the many means of fixation with suture, nails staples, pegs, or plates Union. however, does not always follow this treatment. owing to lack of callus formation Another mode of treatment has for its object the stimulation of callus formation by such means as friction of the fragments hammering the seat of fracture when super ficially situated or by the injection of defibrinated Compound comminuted fractures, with infection and exfoliation of loose fragments, frequently result in non union owing to loss of continuity In the latter class of cases the above mentioned methods are uscless, and some form of transplantation must be practiced. At first autotransplants obtained from the neighborhood of the defect, were employed The bony transplant was, for better nourishment kft attached to a pedicle of soft parts I xperiments soon showed that a pedicle was unnecessary as a free transplant would heal in

Stuckey makes an autotransplantation wherever possible, in preference to using homo- or heterotransplants He reports ten cases of non union treated by free transplants with very good results Good union is conditional upon the absence of suppuration and while union was slow to occur in some of his cases it eventually took place even as late as six months or longer. The technique con sisted tirst in freshening the ends of the fragments The frequent occurrence of a true new joint with capsule and synovia was noted. The medullary cavity was excavated sufficiently to receive the transplant. The latter was taken preferably from either the tibia or tibula of the same individual. The author believes that the transplant should not be detached from its overlying periosteum is then driven into the medullity cavity of the Further security is lent by wires or fragments nails if necessary The article concludes with detailed records of the cases operated upon

erated upon William Hesseut

Axhausen. Transplintation of Joints. Arch f

the Chr., 1913, Key., By Surg., Cymer. & Obs.
Ashausen: reports histologic observations on the
homoplastic transplantation of joints in rats and
the subcuttaneous tissue of home was unplanted
into the subcuttaneous tissue of the back in 8 rats,
and histologic examination of the transplant and
at intervals of § to 100 days. In tablists the patella
and pieces of the epiphysis of the femur were used
for transplantation in a series of 20 animals
Examination shows that the transplanted tissue cells

remain for a time in an unchanged or indifferent stage. Part of the cells retain their normal structure and stalning properties permanently. The remaindershow returgersian echanges, with shinakage of the nucleus and total dissolution of the nucleus. These changes regularly take place from the periphury to the centre. The bone cells in the transplant without exerction as for mit to indicate it stage to the stage exercises and the stage of the stage of the stage statution takes place cheefs from the personnel and mediall stransplanted with the bone tissue. Bone tissue, in the histologic sense is therefore not transplantable.

The superficial parts of the medullary tissue nearest the mother substance retain their vitality. The bulk of the medullary tissue undergoes necrosis beginning at the purpher and extending into the depth. Substitution takes place from the surround ing connective tissue and from the ostrogenetic elements in the surface layer. Medullary tissue histologically, can therefore be transplanted.

The joint cartilyee in the zone adjuvent to the mother substance shows definite steps of the after the end of the indifferent steps. The desper lying cells show destruction of the nucleus. Yetive proliferation of the cells in the live remain of cartilyge realism as cellular substitution of the dead cartilyge cells with persustence of the ground substitute. When the cartilyge is about the increase of the cartilyge colls with persustence of the ground substitute. When the cartilyge is about the increase of the cartilyge colls about the cartiling of the cartiling

The emphysical cartilage after a prolonged in different stage, shows only a flat superficial zone of vitality under the perchondrum or at the point of section. The major part of the epiphy-sed cartilage undergoes destruction. Cellular substitution plays only a minor fole. Lacunar and vasual ir resorbed consideration occurs only in the preserved precision of cartilage. Developmental disturbinees are the natural sequence. Psphysical cartilage, accordingly, is transplantable in the histologie sinse but nough for practical purposes.

Buchanan. A New Method of Bone Transplantation for Ununited Fracture. Internal J Surg 1912, xxx, 300 By Surg Gyme & Obst

The method described consists in (i) refreshing the ends of the fragments and adapting them to each other, (2) reflecting the personsteum from the exposed surfaces over the presenting area for a space sufficient to permit the removal of a transplant from each fragment, (4) saving from the entire blockness of the compact tissue (surface to medulia which the surface of the compact tissue (surface to medulia making the transplant that comes from the larger and better fragment twice as long as that cut from the other fragment, (5) cutting both transplants

exactly the same width and in the same direction and aspect of the bone, (6) transposing these transplants, so that the upper will be below and the lower above, (7) wedging each firmly in its new position by taps of a mailet, (8) suturing periosteum and soft parts

The result is that a substantial bridge of bone monests the fragments, having its center at their junction. No bony defect remains. The franslate of the fragments are the fragments are not substantially bed in which the fragments are not separated from connection with the soft part of the substantial from connection with the soft part of the substantial from connection with the soft part of the hard part of the fraction of the fragments are favorably disposed and the parts aseptic. The method is picularly adopted to those not infrequent cases of non-union of the tibia in which the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibilia is united and the fragments in good her the fibility of the fibility of

The author reports such a case with illustrations in which solid bony union was secured by this method in six or eight weeks after failure of resection and resection with plating. In this case the larger transplant was 23½ x 3½ inches, and the smaller 12, x 3½ inches.

Jokoi Experimental Contribution to the New Formation of Bone by Injection or Implantation of Fmulsion of Periosteum Deutsche Zische f Chie, 1912, cxvat Sept. By Surg Gynec & Obst

Fightments on rabbits and dogs (1) Implantation of pieces of personstem taken from the animal itself and placed in the extremity subculancously or intramuscularly (2) Implantation of periosteum upon other animals of the same species (3) Some implantation upon animals of another animals of the same species of the same species (3) Some implantation upon animals of another periosteum subcutaneously (6) some disposal of another observed in the same subcutaneously (6) in precision of setum emulsion and is not ordrops of a 1 per cent fibra solution, intramuscularly, (6) Injection of the cambium layer scraped from the periosteum

Summary of experiments (1) Autoplastic implantation or injection of periosteal emulsion produced marked new formation of bone in 6 to 10 (2) Homoplastic implantation or injection may produce new formation of bone It does not occur as regular nor as strong as in autoplastic implantation (3) Heteroplastic implantation or injection gives negative results (4) The injection of blood does not seem to stimulate the osteoblastic activity of transplanted periosteum (5) Simultaneously injected fibrin seems to stimulate the cambium cells of the transplanted periosteum to increased bone formation (6) Injection of cambium layer is negative (7) Bony particles which have been implanted accidentally are usually taken up by lacunar absorption

ORTHOPEDIC SURGERY

DISEASES AND DEFORMITIES OF THE

Fisher Injuries of the Spinal Column, with and without I racture and Dislocation. J Am

M Ars. 1912 bs. 1501 By Surg., Gynce & Obst Fisher says sensory disturbances are the most immediate indicative symptoms of either possibility of operation or probability of recovery after operation. He considers indications for operation thus

1. With an irregular line of sensory disturbances, i.e. loss of sensation on one side high up and on the other side low down even with motor and bladder paralysis and possibly complete loss of reflexes, there is very likely extraopinal hemorrhage rather than harmorrhage into the cord substance, hence favorable operative result is probable.

avorable of rainte tesmit is probable

2. With incomplete disturbance of sensation
either unequal on one side or with sensation k-sened
without a complete loss.

3 Cases which in addition to the latter show incomplete though rather extreme degree of loos of motion even if visual paralysis is present provided an irregular distribution of motor paralysis

Sensition at time of injury and a few dass after to of greatest importance in determining for or agunst operation. If sensition improves for a disjort two then begins to decline or remains stationary operation should be done at that time if at all

He cites then experimental evidence that longitudinal mession does not impair the cord function but does relieve cadema often accompanying fractured spine. Shock to the spinal column transmitted to spinal cord can throw out the function of the spinal cord presenting symptoms at moset similar to those of absolute lession of spinal

When there is an absolute loss of sensation with the issual compity of loss of reflexs and paralysis of rectum and bladder and the will defined trins verse line of demaration of anasthesis the case is unlayorable for operation. Any viriation from this condition indicates possibility of a good result from operation. After piralysis, has existed several months operation is almost futile.

With slight chance of recovery he favors operation because in the hands of a skillful surgeon there should not be any special danger in the operation itself L. G. Dwan

Jourdan and Oeconomos Sircoma of the Posterior Arch of the Atlas, Filipation, Recovery (Sircome de lar posténeur de laslas, estupation, guérison)

**Montpéllier Méd, 1912 xxv Oct
By Journal d. Chirurgie

Jourdan and Occonomos report the case of a man 35 years of age who entered the hospital because of an ulcerated tumor on the left side of the neck. The becuming of the affection dates back nine or ten

At that time the patient observed the presence of a small tumor in the left lateral region of the neck Little by little it increased in size until 4 years ago, since which time it has remained stationars Six or eight months ago, however, the putient wishing to relieve himself of the tumor. applied a cosmetic salve. In four or five days an ulcer appeared At the end of two months the center of the tumor was occupied by a necrotic zone of considerable size 1 copious hamorrhage made the patient decide to change his therapy, but by this time the tumor had considerably increased in size it had a base of implantation 5 cm by 7 cm in diameter and supported an ulcerated area as large as a a franc piece. At times it was painful when the pun also radiated to the head

On polyation it was found that the limits of the tumor serv (etar) marked anteriorly and upperiorly, but posteriorly and inferiorly its outlines were lost in the collular issue. In the region of its upper border one could feel a much harder partion, which add red to the occupiat bone. The tumor recil was add red to the occupiat bone. The tumor recil was not mosable its adherence to the bony layers been complete. Picer was no glandular me obt, ment.

Intesthesia was obtained by ether given by the drop method. In incision was made around the ctrcumference of the tumor. Muscular adhesions were very numerous. The larger portion of the sterno cleido mastoid of the trapezius, and of the vertebral muscles was cut and resected. Then it was perceived that the tumor had arisen from the hift branch of the posterior arch of the atlas It was removed with difficulty The arch of the atlas was completely destroyed. A few bony fragments which remained were resected with the gouge forcens. This operation was extended as far as the healthy ti-sue which was not reached before the spinal apophysis and a good portion of the articular mass on the left had been removed. In the course of this process of cleansing out the vertebral arters was injured. A self adjusting forceps was therefore left in place. The bulb lay bare in the pit of the wound Hemorrhage was arrested by careful hemostasis The wound was not closed, but was tamponed with gause. The superficial layers of the dressings were soaked with alcohol, which was applied very gradually. Normal salt was infused directly because the operation had been very bloody

A hill hour after the operation the patient became suddenly pale and respiration crased. The pulse was hardly noticeable. Artificial respiration was employed it of the patient process of contemporated of truncal respiration had continued to the patient process. The patient process is the patient patie

The patient left the bospital recovered When he

was seen again at the end of July he was in excellent condition

Examination of the specimen proved it to be a round celled sarcoma J Dunont

Frolich: Coxa Varu; Its Relation to Fractures and Epiphyseal Separations of the Upper End of the Femur (La coxa vara, ses rapports avec les fractures et les décollements faphysaites de l'extrémité supèrieure du lémur) 25th Cong d l'Ass fran d Chir, Oct., 1912 By Journil de Chirurge

Coxa vary, coxy vary of adolescence or stytic coxa vara, is an uncommon affection of the hip occurring at puberty. It is characterized anatomically, by an upward and backward slipping of the femoral head at the level of the epiphyseal cartilage. Clinic ally, it is manifested by limping and by adduction and rotation of the lower limb. It is unilateral or bilateral Symptomatic coxa yara is more frequent than coxa yara of adolescence in a proportion of tento one. The examination of specimens and radio graphic studies have shown that in adolescence the seat of the incurvation is near the femoral head at the level of the union of the neck and the epiphyseal cartilage This constitutes cervical coxx vara the other varieties of incurvation of the neck that occur at all ages and in a number of localized or generalized bone diseases the collapse of the neck takes place at the level of its trochanteric implanta tion. These are known as trochanteric coxa vara There are thus two forms coxa yara of adolescence or cervical coxa vara and symptomatic or trochan tene coxx vara

The essential form is the result of an overloading of the femoral neck at the time of adolescence or of the insufficiency of the epiphyseal cartilage cause of this deficiency has not been positively determined It may be an attenuated abundoned infection The effects of the overloading and gliding downward and backward of a femoral head are at times accelerated by injury and some have spoken of spontaneous fracture. The lesion lasts one two, or three years The following functional disturb ances are present limbing and an increasing collapse of the neck, then there follows a period of rest then comes a spontaneous regression of the difficulties of gait and an increase in the amplitude of motion The prognosis is good The aim of treatment is to withdraw from the femoral head the body weight and to correct its bends Rest in bed continuous traction, removal of the body weight from the articula tion, sitting posture, with spread himbs upon low stools, massage, mechanical therapy - all are measures of therapeutic value. When the disease is fully developed, forcible correction with rupture or division of the adductors improves the condition considerably When the osseous deformities are marked and interfere very much with walking and with the play of articulation, a subtrochanteric osteotomy is indicated Resection of the hip and shaping of the head and of the neck and vertical osteotomy of the great trochanter are only exceptionally indicated

In the treatment of symptomatic coxa vara, the same principles are observed if the primary osseous affection does not contraindicate intervention. Symptomatic coxa vara is met in congenital malformations rachitis, tuberculosis, osteomyelitis, fibrous osteitis, arthritis deformans, osteomalacia all these forms of coxa vara present symptoms that allow the different types to be differentiated from each other and from essential coxa vara. There is one exception though there can be no confusion between fracture of the neck of the femur and coxa vara of adolescence cova vara of adolescence and traumatic epiphyseal separation cannot be distinguished either anatomically or clinically. In both cases we are dealing with an epiphy seal separation, spontaneous in one case and traumatic in the other. The difference is only an etiological one

Kirmisson states that fractures of the neck of the femur in children are of recent recognition. This scientific conquest is due exclusively to radiography. The lesson has been best studied by Witman. Kirmisson has had five cases. In children, fractures of the surgical neck are intra and extracapsular. kocher designates them as subcapital and intertrochanteric In children we also see incomplete (greenstick) fractures and impacted fractures. According to Poland epiphyseal separation of the head of the femur cannot occur before the age of four years, because the head of the bone is not osseous before that age The condition is usually observed in adolescence Freatment of this form of traumatic coxa vara is prophylactic and curative One treats the fracture and makes use of continuous extension in moderate abduction or of forcible reduction under chloroform, with or without pegging; or resorts to operative procedures methods cannot be often utilized. Curitive treatment consists of operation either upon the articulation or at a distance There are different well known forms of osteotomies For Lirmisson, subtrochanteric osteotomy is the method of choice. Resection of the head and pegging of the neck are exceptional procedures

Willems distinguishes a cervical coxa vara and trochanteric coxa vara He would prefer to designate them as juxtacapital and juxtatrochanteric, One is not justified in speaking of a tuberculous coxa vara any more than he would be in speaking of tuberculous clubfoot It must be borne in mind that symptomatic coxa vara is usually either rachitie or traumatic To avoid overlooking rachitic coxa vara one should make use of radiography in all cases of beginning coxalgia, and likewise, to avoid overlooking fractures of the neck in all hip injuries radiography should be used In them we will always be able to use the preventive treatment of coxa vara by placing the limb in marked abduction (45° at least) If the case is seen too late, and if union has taken place in coxa vara, a bloody operation only is useful, and subtrochanteric linear osteotomy is the operation of choice

Gangolphe states that essential coxa vara of

adolescence is not of traumatic origin. It is characterized by an initial softening of the neck of the femur, associated with a gliding and at times a juxta eniphyseal separation. These two elements. flexion and displacement of the epiphysis, are synchronous liexion must be mentioned first because it is the cause of the diminution of the angle of the femur, and this is responsible for many of the clinical symptoms. Gangolphe would define coxavara of adolescence as an affection characterized by an initial softening of the neck of the femur and the possible, but not essented appearance of a fracture with juxta epiphyseal separation He presents pictures to demonstrate his point of view He does not look upon traumatism as an etiological factor In addition to the clinical symptoms indicated by Frölich Gangolphe notes the absence of lordosis The diagnosis calls for bilateral radiographs There is no necessity for an open operation

Nove Josepand has had 6 cases of rachitic coxavary In 3 patients of 5 6 and 10 years old respectively the deformity remained stationary or became worse. In one case attempt to cure by forced abduction was ineffective. In three other much younger patients the deformity corrected itself almost completely within a few months. In these three patients treatment by forced abduction seems to have fed to correction by displacing the epiphyseal frigment forward upon the femoral neck He concludes that the spont meous correction of rachitic coxa vira is possible and even frequent before the age of , years, that this correction seems to be due to growth owing to the oblique disposition of the epiphyseal cartilige and that treatment by forced abduction may aid correction but it is not

yet positively determined that it does so Savnaud believes that, to avoid obscuring a question which is clear in itself, we must not give the name coxa vara to all weaknesses of the femoral neck prespective of cause. The name must be reserved for the disease described by Müller, an affection which recent works seems only to have confused In the experience of the author (12 cases), cova vara is a frequent affection almost as frequent as genu valgum of adolescence which malformation is self-evident One of the characteristics of spontaneous cova vara is that it follows a regular course and always terminates by spontaneous cure Such obtained in all of the author's cases Outside of rest which is valuable especially during the painful period Savriaud does not in a general way employ the various methods of treatment suggested He energetically combats the opinion of many orthopedists who see fractures and epiphyseal separation in all cases of coxa vara No doubt spontaneous fracture and traumatic fractures are met in coxa vara and constitute the first episode of the disease, but these cases are rare when we consider the number of cases of coxa vara which evolve without the slightest indication of traumatism What is usually observed are false fractures, that is, errors of interpretation made by those who believe that they can make a diagnoss by simply looking at a radiographic picture. There is no difference between the clear space given by the layer of cartilage and the clear space given by a solution of continuity. Numerous mistakes have been made which could have been avoided by careful study of the history and prolonged observation of the raticists.

Moulet believes that the term cox axis is often musused. It ought to be reserved for the following varieties congenital, rachitic of early childhood, essential or trumatic of adolescence. In two cases of essential coxa vara he noticed an intermittent subhuartion of the femoral head which occurred during flexion of the thigh. He believes that the production of coxa vara has been exagerated Often the traumatism is not the cause of the coxa vara. In sit he outcome of the pre-ensiting trophic

alteration of the neck Gourdon has had 15 cases of coxa vara Two were essential the backward and downward slipping of the head of the femut was apparent upon the radiographs and had occurred without any traumatism upon the influence of the body weight. The two patients 14 and 16 years of age, had an exaggerated physical development for their age hypothyroids. The 13 other cases were symptomat ic coexisting with the following affections covalgia. fracture of the neck rachitis and congenital luxation of the hip. Cases of rachitic coxa vara in children recover under the influence of test and medical treatment. We must establish a distinction between the anatomusi type of cosa wara observed in congenital hip dislocations, according to whether the deformity of the femoral neck has taken place previous to or after reduction Before reduction the coxa vara is trochanteric, with the head of the femur displaced upward. After intervention the coxa vara is also trochanteric in type, but the neck is crushed and one notices an almost complete collapse of the

Barbarin had a case of essential cova yara in a young m in of 15 who was being treated for scoliosis Deviation of the vertebral column was absent. marked atrophy of the gluteal muscle external rotation and limping fed the author to think that the case was one of coxa vara adolescens Radiography confirmed this diagnosis Massage, electricity, and orthonodic gymnastics brought on a cure at the end of a year This young man has never had pain Barbarin believes that in the majority of cases of essential coxa vara, whatever may be the intensity of the symptoms or the importance of the limping, one should wait a long time before intervening surgically In these cases surgical intervention should be exceptional. It is often metherent. Many cases of osseous rachitis with a limping and waddling gait are neither convenital luxation nor coxa vara. but as has been well said by Frölich, incurvations of the femoral diaphysis with external convexity. Radiographs dispel all doubts In congenital luxation there is a possibility of a traumatic coxa vara following reduction, but in a certain number of cases, previous to any attempt at reduction there is a tendency toward inflexion of the neck, which explains the persistence of slight limping with the head in place, in good rotation, and in a cavity of sufficient depth. He has seen a case of traumatic coxa vara in very peculiar conditions. The child was brought to him for marked limping Clinical examination of the hip proved negative was no swelling, no luxation The parents recalled that the child fell upon his back at the age of three months Radiographs showed that the head and neck of the femur were completely displaced down ward and inward. Perhans in this case can be found factors throwing some light on the cuology of cora vara

Martin du Pan relates observations ubon a child 7 years of age who, in falling from a second story sustained an intertrochanteric fracture of the nick of the femur He recovered from this fracture with a good functional result. Two months later, in another fall, he sustained a fracture of the same hip in the epiphy seal line The same treatment was applied, followed by an almost complete ankylosis of the coxofemoral articulation Subtrochanteric osteotomy practiced six months later restored movements of articulation and since then the patient has been able to walk without limping The X-ray picture showed that there had been sustained a new epiphy sioly sis with pseudarthrosis He does not think that in children under the age of 18 months any important information can be had from radiography of the hip. He has observed one case of essential cora vara following an attack of scarlet fever

Judet communicates a series of four cases which have the advantage of showing the question of coxa vara under different aspects. A boy 13 years of age had a fall from a ladder striking upon the external surface of the hip his weight coming princi pally upon the great trochanter The X-ray picture showed a transverse fracture of the middle portion of the neck The displacement was slight For two months the fracture was treated by continuous extension by means of adhesive strips. On the eightieth day the patient was allowed to walk There was no shortening, no limping The radiograph showed consolidation of the neck normal shape and normal angle. This therapeutic result shows that these fractures of the femoral neck do not in themselves give a bad prognosis if they are treated from the beginning

The second observation shows the evolution of a mon-diagnosed fracture. The patient owing to a misstep, had a violent fall upon the hip. There followed caute pain and inability to walk. Rest to be during troo weeks. Walking was then allowed but it. The the contract of the part of the during troo weeks. Walking was then allowed but it. There must be upon the part of the part o

abduction and 2 cm of shortening. The radiograph showed the collapse of the neck, which had become horizontal, and the correlative ascension of the great trochanter. In the external portion of the neck in the intertrochanteric region a dark line could be seen, the remains of an old fracture line Signs of decalcification of the internal segment of the neck were present. Treatment under anæsthesia Laternal rotation was corrected and abduction increased. Immobilization for one month in a plaster of paris cast, retaining the same attitude as is seen in the second step in the treatment of concenital luxation of the hip (adduction, internal rotation) At the end of a month, removal of the apparatus The correction of the vicious attitude was maintained, but walking was not allowed until the end of six months. In short, this case was an overlooked intertrochanteric fracture, giving rise to a deformity which, from the anatomical standpoint was nothing other than the habitual deform ity of viciously consolidated fractures of the neck of the femur

The third observation showed an essential coxvars the evolution of which was aggravated by traumatism. A healthy young grif suddenly developed pain and imping in the left hip. Fears of coxalgia were entertained. A few months later, following a misstep the patent fell upon her hip. She suffered severe pain. Rest in bed is days. Aggravation of imping, vicious attitude (fearon, adduction, outward rotation, marked rigidity). The radiograph showed the collapsed neck almost horizontal, and a linear shridox, probably an old fracture line, i. em. external to the epiphysical cartilage.

Observation four A boy six years of age in good health developed, after diphtheria, bilateral limping, simulating very closely the waddling gait of bilateral congenital luxation, never any traumatism nor any pain At the age of 12 years, one noticed that the great trochanter was 3 cm above Nelaton's line at the right side and s cm at the left The radiograph showed on the right side a horizontal neck with a decalcified internal portion. The head was in its place in the cotyloid cavity On the left side the neck had collapsed to an acute angle (80°), the head was as on the right side at its place. In this case, we were dealing with a bilateral collapse of the femoral neck, due to an as yet unknown influence, perhaps infectious We cannot say that these cases are traumatic in origin

Lamy calls attention to a particular deformity of the upper estremity of the femir accompanying a chronic arthritis similating covalpia. The most constant characteristic of this affection in postudied cases was a subacute arthritis always recovering without complications and with full mobility, outside abduction, which is slightly limited, no swelling, no abscess, no enlarged inquisid glands, but a hard voluminous head and an upward displacement of the great trochanter, no muscular attrophy, and no trophic disturbance as to length. The radiograph showed a moderate degree of crox vara, oscillating showed a moderate degree of crox vara, oscillating

between 90° and 120° The neck was very much thickened in its vertical diameter, the epiphysis was futtened and relegated to the superior external part of the head, and often fragmented at the onset of the illines No decalification. Recution to tuberculin, negative. Some cases have been variously interprited—beginning ostomyelitis, arthritis de formans, tuberculous The author behaves that there is a clinical and radiographic entity that it is important to undividualize, because if we are dealing with a cotaliza we immobilize the patient, which in these cases as has been demonstrated by Calve, in 30 cases), the patient is immediately encouraged to walk

SURGERY OF THE NERVOUS SYSTEM

Elsberg, Surgery of Intramedullary Affections of the Spinal Cord, Anatomical Basis and Technique. J im 3f 4s total ht 1532 Ils Surg Cyme & Olst

I bloor observed a number of lessons within the cord substance amenable to suggest treatment. He believes that in intraincollars affections tumors exist bullets etc. with proper to thinque it is feasible to incise the cord substance. He cites instances of soluted cases where surgical breasures than the cord substance and treatment of the cord substance and treatment of the cord substance and treatment as the cord substance and treatment of the cord substance and the cor

on anatomic consideration of the cord anatomy

He advocates the posterior columns as the most favorable for mission because of their antitioner position physiologic chiracter and the case with which they can be exposed. We pleation of the cord for localized collections of fluid stringiments, him mitimplich and cysts is nie doon with entire safety provided a time needle be used and care be taken not to impure the small vessels which enter the cord through the posterior median septum from the part arechnoid.

Technique for neutron of the cord. A complete Immunetomy i e removal of at least three squanus processa and Immun is always necessary for through exploration. Here the dura is merced the pin arachinoid is increased superartely and raised with foreign. In 5 cm long is made carefully deepened and relitriced in the axis of the cord by means of a blant instrument.

In case of intramedullar) tumors incason as made in threat ordinard term threat cond and the tumor cases. No attempt is made to remove it unkey as superficial and smill. The growth should be left to extrude, and removed at a later operation in case of individually conductable length so as to obtain maintained mechanisms decompression effect. L. G. Daxin maintained mechanisms and compression offert.

l'eriche: Some New Indications for Posterior Radicotomy (Q'elques indications nouvelles de la radicotemie positrieure) Lyon Chir , 1012 v.11, 434 B) Journal de Chirurge.

Posteror radications, a "difficult but not mudrows operation so far has been employed only in the synatodic purpless. It is structure to take and certain under the continuous Lariche thinks that it is permissible to extend the sphere of this procedure to certain obstinite perspiratal lesions of trophic or secretory order, which reveal themselves to analysis as radiculogangloiners syndromes." He cites among others the following

(1) The intercostal zone for which the radicular origin has to day been well established, in certain obstinate recurring and painful disorders which make surgical treatment legitimits.

(2) Perforating plantar disease when all peripheral operations have fulled and when radicular origin may be assumed in which case the fifth lumbar and the first sucral root of the corresponding side should be severed.

(1) Certain painful cries of obstinate hyperchlorihydri independent of an gystin, or duolenal ulcer radicatomy of the fifth to tenth doral roots will act upon the sympathetic nerves of the stomach which are sensitive and above all secretory, its effect approaching that of the clongation of the solar plexus which is proposed by Jaboulty

These suggestions so far have been purely theoretical However in one case of obstinate herpes, Leris, he has cut the fourth and fifth dioral roots of the corresponding sole. The result was one of surprisingly, rapid improvement, in a 5 hours, the pains had disappeared the vesteles were withered and pained that the had resulted and pained had resulted normal sensibility and appearance. Our Levisker

DISEASES AND SURGERY OF THE SKIN AND APPENDAGES

Morestin: Voluminous Angloma of the Face Treated by Means of Fixing with Formalin After I igature of the Faternal Carotid and the Facial Vein (Volumieus angeme de la face traité par la frationa ul formal après lapture de caro tude rattene et de la veine faciale) Ball et mêm Soc d'Chir, xxxvin 1208

By Journal de Chimirgie

Morestin presents a young girl to years old who has recovered from a voluminous angioms which occupied nearly the whole right half of the face

After ligature of the external carotid and the corresponding facual ven he mad all about the tumor, a series of punctures tracing a crown, and injected each with a drop or two of a formalin preparation in one third dilution (one third alcohol oper cent pure, one third glystem and one third formalide hide). A second concentral curde more present that the contraction of the

Under the influence of these injections, the tumor became sold and transformed into a hard mass. To complete the cure it was necessary to mike some supplementary injections during the following days (two sittings at each of which he injected in ec. of formatin in one third solution). To day, after as months, the angioma has entirely disappeared, which is the solution of the solution of the solution of the solution. To day, after as months, the angioma has entirely disappeared, which is the solution of the solution.

Among the properties with the state of the control of the control

It should be admitted, however, that in the present case its action was very much facilitated by the relative ischemia and stagnation of the blood which resulted from the ligature of the external carotid and the facial vein

MISCELLANEOUS

was 16 days

CLINICAL ENTITIES - TUMORS, ULCERS, ABSCESSES, ETC

Craster: Conditions Governing the Growth of Displaced Normal Tissue J Exp Mediume 1012, 201, 401 By Surg Jones & Olist

Craster has made an incomplete series of animal experiments bearing upon the factors which cure retardation of grown, an addisappearance of normal tissue when displaced into an unusual conformant its is known that tumor cells do grow under just such conditions. The former problem has no doubt an indirect bearing on the latter one.

First series Transplantations of pieces of skin were made from animal to animal (homogeneous transplantation). It is known that successive transplantations of tumors increase the case of their growth. This was not found to hold true for normal tissue, as necrosis and disappearance occurred in all cases after three or four removals.

Second series Fragments of testis used — transplanted under skin of axilla Result same, but more

Third series was for determining the receptivity of the host after successive implantations. It was found that later grafts degenerated more rapidly than earlier ones

Fourth series To determine the effect of physical conditions Pieces of skin were buried under the tkin, epidermal side out After 24 48, and 60 hours, and 4, 6, 8, and 12 days, the overlying skin was cut away and the graft sutured to the skin edges Only those buried not more than 24 hours grew

Lifth series Same experiment save that the skin was not entirely detached and surrounding skin was slid over it and sutured. These pieces grew, when replaced, up to the 12th day of burn! Sixth series Pedunculated flaps were butted within the abdominal wall. The limit of vitality.

IAMES T CHURCHITT

Tiek Treatment of Imminent Traumatic Gangrene of the Fitremities Deutsche med Il chusche , 1912, IXVIII By Surg , Gynec & Obst

application of the muthod of Noesske, consisting of deep incision to combat venous stasis in threatening gangrene Noesske applied suction subsequent to the incision Liek states that the procedure of incisions has long been employed in preventing gangrene of pedicled flaps Repeated scarification relieves the congestion and the flap lives ports the case of a student whose right ear was almost severed during rapier fencing Lxact suture and 15 superficial incisions placed radially improved the appearance of the ear somewhat Scarifications repeated the next day and the day after. At the end of three days appearance of ear was normal The author was similarly successful in saving the fingers in two other cases He recommends scarification rather than deep incisions in these finger cases, as subsequent adhesions may lead to complaints Suction was not employed If, however, the function of the fingers presumably will not return, Liek counsels primary amputation. Tendon suture should be postponed until the life of the finger is assured. F C Riener

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In the course of recording several unique cases of his own Finney took occasion to review the whole subject of fatty conditions in the lody, finding that lipomata may occur in any situation, even in the heart and brain. His summary of Marchand's and Verebely's work on the healing of fat sheds light on a subject hitherto neglected. The question of fat embolism is also discussed especially its occurrence following fracture and crushing of bone, when the transmission of the embolus is usually directly into the blood stram

Under the general head of Dercum s disease adiposa dolotosa. I innex was inclined to include the two following cases A stout man who had suffered from abdominal distress after meals for a sears History and examination nightive. At operation November 1000 the mesenters appeared every where thicker and futter than normal. This was particularly noticeable in the mesenters of the transverse colon and omentum especially on the right half of the body, producing the effect of a marked lipomatosis which ended abruptly just to the left of the midline beyond which point the fatts development was about normal. The abdomen was closed without doing anything Since obstitum the patient has had the same general samptoms as before but not oute so severe

In another similar case also that of a man who had suffered from pain in the epigistrium for a couple of years a condition analogous to that of the first case was found in the ibdomen fatty denouts though seemed even more extensive involving not only the right side of the ementum but the mesenters of the large and small bowel is well. There was no explanee of recent or old uleer on the gustra or duodenal side. The involved part of the omentum was removed much scot a distant ination showing it to be for the mest part pure fat

with a few scattered treas of old hemorrhage Finney reports in detail two other unusual cases in which resection of the intestine was necessitated by a purely fatty condition. The article concludes

with a discussion of lipoma irborescens BERTEAN M BERNREIN

SERA, VACCINES, AND FERMENTS

Graff and Ranzi The Problem of Immunization Against Malignant Tumors Ifitt a d Grentgeb d Med w Chir 1012 IIV 278

By Surg Gynec & Obst

Experiments in active immunization against carcinoma and sarcoma. The authors refer to studies in autoimmunization made in 1910 Dungern heats carcinoma material to 56° C before injection Rövsing reports the same success by this method in sarcoma f.oca (Manila) used carbolized material Delbert did not kill the carcinoma cells and rein sected them subcutaneously immediately after extirnation after traturation with saline solution Graff

and Ranzs repeated this later method upon a woman 46 years of age with mammary cancer (adenocar-The growth and glands had first been removed in a radical operation. Recurrence after accompanied by the injection of some of the removed material into the arm. No reaction occurred at the point of injection Two months later, a tumefaction appeared at the site of injection and a recurrence at point of operation The tumefaction on the arm was extirpated and found to be adenocarcinoma. The patient died one month later

Inimal experiments were carried on to answer two nuestions (1) Is immunization possible with dead tissue' (2) Will a tumor, removed from an animal and reinjected continue to grow? Answer 1 themically prepared material proved ipert. Acimals injected with living material seemed prior to inoculation to possess some degree of immunity Injections of blood embryonic tissue, spleen, liver all proved negative. Answer 2. The inoculated tumor grew in the majority of the experiments. The experimenters come to the conclusion that injection of tumor material without previous preparation is not partifiable

Gironi Leucocytosis and the Rivalta Serum-Blood Reaction Mitt a d Gren gib d Med

Chr 1913 Est, 227 By Surg , Gypec & Olat. Gironi endeavors to establish a parallel between Rivalta's reaction and the degree of leucocytosis in pathological processes for prognostic purposes. He ands that the intensity of Rivalta's reaction is directly proportional to the number of circulating leucorytes and inversely proportional to the ratio between white and red blood cornuscles. He describes Rivalta's reaction as follows Several ee of blood are taken from a vein part of this is set aside to obtain the serum. Two solutions are made No 1 contains 1 drop of a saturated solution of sodium carbonate to 100 ec of distilled water, No contains a drops of glacial acetic acid in 100 cc of distilled water Solution 1 is used to dilute the I lood and also the serum (1 100) 1 rod 12 cm in diameter is disped into the dilution and the adherent drop allowed to fall into the acetic acid solution Adistinct white ring is formed Succes sise dilutions with 100 er of \a, (O; solutions are made and the test continued until the white ring is no longer visible. This ends the reaction. The dilution at which the rine was still visible is used as indicator for example, if the ring is visible in a dilu tion of 1 1000 and invisible beyond this 1 1000 will be the degree of the reaction. The procedure should be carried out in a dark room. The precipitating substances are according to Rivalta, globulines The blood of normal individuals con tains these globulines in constant amounts, these fluctuate, in the terms of Rivalta, between 400 and 600 Pathological processes change the amount The globulines decrease in grave processes when resistance is low, when resistance is high they

increase, and may reach the enormous value of 2200 A certain analogy exists between this precipitating substance and the antibodies. The reaction is not confined to infectious processes. Gironi considers Rivalia's reaction a great adjuvant to a correct prognosis.

Jobling and Bull: Studies on Ferment Action.
A Specific Immune I ipose. J. Lxp. Medicine
1912, 2x1, 483
By Surg., Gynes. & Obst.

It has been demonstrated that there is a close parallelism between agglutnative humolytic and lipolytic substances. Further work has proven that sera of animals immunized to foreign cells have an increased lipolytic power but this increase in serum lipase has not heretofore been shown to be specific. It is this point that the writers take up.

The first step was to secure a base of comparison for the non-specific lipolytic activity of the serious of animals before and after treatment with foreign copuseles. The same animal (rabbit) was used throughout and hen corpuseles were used for immunization. The next effort was to determine if possible, whether this lipse was in any was specific. This was done by comparing the lipolytic action from the second properties of the lipolytic action that the properties obtained from other sources (human rabbit and gunca pig). The sults showed that the lipolytic action was gratter to the specific copusales and therefore it make the concluded that the lipold acts as a specific was the concluded that the lipold acts as a specific variety of technique are given.

The lipolytic action was expressed in terms of n/io sodium hydroxide after iterating ignist phenolphthalein. It is of interest to note that the action formed by the ferment action were shown

to be fatty acids

Conclusions I Frythrorytes have definite inpodal constituents peculiar to the species 2 Certain lipoids and lipoid I combinations are as specific antigens. 3 The increase in serum lipase which occurs upon immunization of animals to foreign cells b, at least in part specific. 4 This specific lipase plays no doubt an important part in specific serum hemolysis.

IAMES T CHURCHILL

BLOOD AND LYMPH VESSELS

Rosanow: Lymphangioplisty in Elephantiasis.

Arch f klin Chir, 1912, xcix

By Surg Uvnec & Obst

After reversing the older methods in dealing with this obtinate trouble, such as excession of parts and resections and quastions of vens and arteres the author enters into a discussion of the method of Handley, published 1908, consisting in making new Tymphatic channels to produce better lymph drainage. Handley used silk or silk norm threads. Lans improved upon this method by the formation of communications of subertaineous and deep muscular and prinosteal lymph channels. Lans feneristated

the fascia lata and passed flaps of the fascia down to muscles and perioteum. Oppel extended this method to the tibula and crural points. Rosanow shows by a case in which be obtained a good and apparently. Iasting result that tringular and frombook flaps may advantageously bring about a drunage and cure of elephantiasis. He adds extission of exultant skim.

Dobrowolskaja Technique of Suture of Vessels of Small Caliber Deutsch-Zische f Cher, 2022, cure By Surg, Gynec & Obst

I report of experiments with does (47 cases) for suturing vessels of small caliber. The direction of the line of suture is changed from transverse into oblique to avoid the narrowing of the lumen after the suture is performed Indentated, flap shaped incisions and circular ones with an extra longitudinal incision on both sides are other modes of operation I he indintated incision is the simplest. It is made triangular to the middle of the vessel, one end is turned 90° the protruding points are then sutured on each side and pulled away from each other, thus approximating the indentation triangles, which are now sutured with continuous suture, intima to intima The lumina of the vessels are enlarged by this method of incision, and the traction sutures facilitate the uniting of the two ends, as the danger of catching the opposite wall with the needle is avoided. The enlargement of the vessel at the suture point shows a tendency to disappear after a w hale

In the experiments with veins, two needles are inserted transcrisely, one above the other and 1½-2 mm apart, the vessel is then cut and both needles policid through together. The portion of the thread which is in the lumen is then pulled up from both ends with croche needles and cut. The two sutures thus obtained on each end are then pulled to both sides, and the ends approximated and sutured with continuous or interrupted sutures. Human hair or sill, so and struight needles are used. Complicated incisions and sutures apparently do not endinger the vessels. Fredging of Dyss.

Boothby Note on the Transplantation of Fresh Venous Segments. Ann Surg, Phila, 1912 lvi, 409 By Surg, Gynec & Obst

The author describes a technique for the introduction of stay stutiers in the voin before it is removed for transplantation. The ven is freed for a distance of the onehes and liquid at both ends. Close to the upper ligature the vein is grapped by a smooth forceps and a small inch is made close to where the forceps grapps the vein. A stay sutture is them introduced from without in and emerging through this med. It all, six stay sutures are placed by the repetition of this maneuver, and the vein segment is then removed for transplantation, each stay suture of the vein being used to anchor it to the new vessel. Circular suture completes the operation.

Carrel: Results of the Permanent Intubation of the Thoracic Aorta Surg , Gynes & Obst , 1912, XV. 245 By Surg , Gynec & Obst.

In the course of experiments made a few years ago. the author succeeded (the experiments were made with a view of finding a radical treatment for intrathoracic aneury sms) in grafting onto the descending aorta of a dog a segment of vein preserved in cold The animal remained in good condition, and died two years afterwards of a myelitis which

was then epidemic among dogs

In the actual conditions of surgery, the resection of the sac and the graft of a vascular segment on the thoracic aorta would be a complicated and danger ous operation. It would be simpler to insert into the sac a gold tube through which the blood could flow The thoracic aortas of seven animals were intubated with a glass tube, three with an aluminum tube, and one with a gold plated aluminum tube These experiments have shown a new fact arterial blood flowed through a glass tube nine or ten millimeters in diameter during periods varying from five to ninety seven days No deposit of fibran on the wall of the tube occurred occlusion of the vessel or of the tube took place following a laceration of the aortic wall by the roughly finished edges of the tube

The permanent intubation of a large artery is a simple operation. It may become practical if the shape and the nature of the tubes be modified in such a manner as to prevent the laceration of the aortic wall. It is probable that the use of smooth edged gold tubes, or of tubes lined with a vein will be followed by better results The question of the application of this method to human surgery will

then, possibly, be considered

POISONS

Cramp. A Consideration of Gas Bacillus Infection with Special Reference to Treatment Ann Surg , Phila 1912 lv1 544 By Surg Gynec & Obst

In this article, the author presents the subject of gas bacillus infection in a comprehensive and exhaustive résumé of 187 cases comprising all the known cases on record including 25 new cases from Bellevue Hospital New York 8 of which were treated conservatively, with no deaths He discusses the etiology, describes the typus of wounds in which this infection is frequently found, the manner of the receipt of injury and states that it is a comparatively rare disease, occurring about once in 644 cases of trauma. Special emphasis is laid upon the treatment of this condition and a comparison as regards recovery is made between those treated conservatively and those upon which an amputation had been practiced

Eighty four per cent of the 187 cases, taken as an entity involved the extremities, 76 were due to compound fractures, 41, the result of extensive lacerated wounds and crushing injuries, 21 were

post-operative, 15 had their origin in gunshot wounds, the remainder were due to various causes. as subcutaneous injections, hypodermic administrations, bites of animals, gorings, and obstetrical cases The gross mortality was 48 per cent Fifty of these 187 cases were treated by amputation, with a mortality of 30 per cent, while 30 cases were treated by incisions, with either continuous or frequent irrigations, with but three deaths, and these three were the result of complications - tetanus. hæmorrhage, and mixed infection, respectively

In the matter of treatment, the author considers prophylaxis to be of extreme importance. All wounds caused by great force, especially if contammated with soil or dirt-covered objects, should be treated as if infected with gas bacilli, they should be left open, freely irrigated, bandaged lightly or not at all, inspected frequently and frequently irrigated and never should be encased in plaster. On the first sign of infection, a smear should be taken free

incisions made, and the wounds immersed in bath

or constantly irrigated In conclusion, the author says I The incubation is very short 2 The disease can be classified into superficial and deep, the former easily com bated, the latter requiring prompt energetic action The more conservative methods should be em ployed in the treatment of gas bacillus infection Oxygen in some form should be used preferably hydrogen peroxide 5 Extreme pain coming on during the first twenty four hours following injury, and this accompanied by sudden rise in temperature, should excite suspicion 6 Early recognition is the Leynote in combating this condition should be made from the original wound, and not from some point distant from it

ELECTROLOGY

Cole Serial Radiography in the Differential Diagnosis of Carcinoma of the Stomach. Gall-Bladder Infection, and Gastric or Duodenal Uicer Arth Ront Ray, 1912, txivn, 172 By Surg , Gynec & Obst

The author discusses in a ten page article the value of serial radiograms in the diagnosis of many lesions of the right hypochondrium. Not claiming the serial speed in true Röntgen cinematography, he recommends a short series from this and that cycle of the stomach with a technique that permits of fluoroscopic observation before, during, and after the exposures By an examination of each plate in the series all irregularities in the profile of the bismuth shadows can be identified as either due to peristaltic wave action or not, and a good idea of the mechanical action of the organs can be obtained In this way the series explains many peculiar appearances seen on any single plate

Although the radiographic appearances of intraand extraventricular tumors ulcer, and other conditions affecting the mechanics of stomach, pylorus, and duodenum are described at some length, and the

differential points classified systematically, the article hinges around the subject of adhesions. The author describes fully the characteristic appearances which may be seen on a series of plates where the action of the bismuth filled viscera was affected by adhesions to surrounding organs, and contrasts them with the typical appearances seen when tissue masses have invaided the wall of the viscus or exert pressure from without

The article is accompanied by two dozen half tone reproductions from radiographs illustrating the lesions discussed

Hollis E Pottle

Barjou and Japiot: Radiotherapeutic Treatment of Anglomata (Le traitment radiothérapique des angiomes) Lyon Chir, 1912 viii 401

By Journal de Chirurgie

The conclusions of this article based upon a report of personal experience with more than 70 cases and containing many well prepared illustrations, are the following

In navi pigmentosi, radiotherapy is absolutely contraindicated, if suppression of the navus should ensue, recourse would be to its surgical extirpation 2. In punctated, stellar, telangrectatic navi

radiotherapy gives but slight result and electrolysis should be preferred to it

3 In the plun vascular nævi (wine spots")

- 3 In the plum vascular navu (une spots') radotherapy is in nearly all cases insufrincent, of six cases so treated, the authors record three or six cases so treated, the authors record three or which this failed, two cases which showed slight improvement, and one complete recovery. The other success was obtained with an Indant a few model, and sprobably to be explained by the tirrediness of the treatment. On older lessons radotherapy seems to be without effect, radium gives perhaps better results.
- 4 Tuberose vascular new (angomata in the proper sense), constitute the formal indication of radiotherapy, at least in young children 87; cases vanously located in sulpects of this age were treated by Barjou and Japot and all have recovered, without scars and with asthictically perfect results. With adults on the other hand the authors have ended to the succession of the

To insure a perfect result — that is to say healing without cicatrices — radiotherapy, must be applied "prudently and patiently, applications must not be repeated until an interval of three or four weeks has elapsed, always avoid radiodermatitis

CR LENORMANT

Poncet and Leriche. Heliotherapy (Heliothérapie)

Bull de l'Acad fran, 1912 ixvin, 261

By Journal de Chirurgie

Heliotherapy was tried by Poncet and Leriche

frememerapy was tried by Foncet and Letture for the first time about twenty years ago. Since then, the authors estimate, they have employed insolation in more than 500 cases.

Where must hehotherapy be undertaken? It can be carried out in all countries All that is necessary

is to prolong the time of each treatment, which may be given in the open country or in the city.

Where should helutherapy be carried out, if the patient is able to change his place of residence? The air of the mountains and the intense insolation which we can so easier care in the region of the snows seem to be particularly to the fisting the constant of the bones of the bones and patient of the snows seem to be particularly to the fisting the constant of the bones of the bones and the snows seem to be particularly students which supervised uting the development of pulmonary tuberculosis should also be assigned for mountain treatment

On the other hand, adenopathies, superficial teberculosis, scrulatus affections, rickets, ostical teberculosis, scrulatus affections, rickets, ostical carticular deformaties in childhood and adolescence, and all the inflammatory improve better under heliomatine of the inflammatory improve better under heliomatine of the inflammatory improve better under heliomatine of the inflammatory improvement and territorial treatment. Poncet and Leriche recommend treatment in which the exposure is propressively increased

Beginning with only ten minutes, we may increase the exposure, more or less quickly according to individual adaptation, to three hours, morning and

evening, and from May till September
While it is true that priteints whose skin becomes
pigmented most rapidly are the ones who recover
better, the rule is not absolute, and in a number of
cases has been found not to hold at all

Theoretically, every form of tuberculosis will get better under insolation In practice, however, there are localized forms of tuberculosis, such as renal tuberculosis upon which heliotherapy seems to have no effect

It is in tuberculosis of the peritoneum, of the lymphatic glands, and of the bones and joints, that heliotherapy acts most beneficially

In tuberculous peritoritis of the acid form, the combination of heliotherapy with laparotomy gives results much more rapidly than the sun bath cure if used alone, and much more lasting than laparotomy employed alone.

In the abrocaseous forms this combination is likewise the method of choice. On the other hand, the dry forms and the incipient forms may be treated with the sun bath cure exclusively

Bacillary synovitis, and even "synovitis with rice bodies," will improve rapidly under exposure to the sun

Tuberculous adenits resists heliotherapy when carried out in the interior and treatment of this condition constitutes the triumphs of heliomatine

When the glands are soft and suppurative it is better to puncture and purge them than to rely upon the action of sunlight alone

In the treatment of osteo articular tuberculosis, helotherapy has already effected many curred. Thanks to behotherapy honer and Leriche hardly ever amputate the low former limbs, and almost never the upper limbs, thanks on longer a conservative but a roll, resection is no longer a conservative but a roll treatment, with very restricted indications. They scarcely ever resect

the knee, as immobilization by a plaster cast and insolation will cure most white tumors which formerby were operated. Resection is to be reserved for the painful forms and such cases where social considera-

tions make it necessary to gain time.

For the foot and for the elbow, resection is superior to every other form of treatment. Dry caries of the shoulder justifies prompt intervention. The other forms of arthritis of the shoulder and the white tumors of the wrist get better under conservative treatment.

The conservative treatment for all joints consists in a combination of immobilization and insola

told pattent systematically enposed to the sun will get better. Though his recovery may not always be as rapid as with sample manned main, and always be as rapid as with sample manned main, but here. It is very common to see a complete return of the function of the point and very often pattents have only a partial limitation of movement of the affected ions.

Heliotherapy is a valuable resource for post-

operative treatment.

The effect of the action of the sun is also very beneficial in Pott's disease, in tuberculosis with multiple foci, in fungous ostetits with or without fistule, and in residual ostetits. Heliotherapy does not act to any great extent upon painful ostetits. If there are sequestra, Poncet and Leriche intervene to hasten recovery.

In the inflammatory forms of tuberculosis (subacute and chronic tubercular rheumatism) the sunbath treatment is remarkably effective, particularly

if given by the seaside

Even scrolulous affections and rickets will be quite beneficially affected by Hehomarine treatment. In non tubercular affections, Poncet and Leries to tamed in cases of retarred union of complex fractions to the remarkable effects which they have betained in cases of retarred union of complex fractions wounds (in a word, in all prolonged infections states), and in the most diverse forms of trophic disturbance.

GYNECOLOGY

UTERUS

Jessup: Hodgkins' Disease Involving the Uterus

Am J Obst, N Y 1912 Lvv., 401 Comes & Obst

By Surg , Gynec & Obst 14 Watery and

Jessup reports the autopsy findings of a case of Hodgians' deases in which there is extensive involvement of the uterine wall with modules which microscopically are typical of Hodgians' disease. The increasing eye of the uterus with ealingment of the lipmbatic glands, had earlier occasioned the diagnosis of sarcoma uteri with lymphatic metastasis. N. Sproart Hearity

Kamperman: A Study of Two Hundred and Twelve Cases of Cancer of the Uterus, with Especial Reference to Early Diagnosis Am J Obil, N Y, 1912, INV 506

By Surg , Gynec & Obst

Kamperman has studied the 212 cases of uterine cancer which have occurred in the university and private clinics of Dr. Reuben Peterson and comes to the following conclusions I. Cancer holds fifth place as a cause of death in

r Cancer holds fifth place as a cause of death in Michigan

2 The death rate due to cancer during the last five years has increased 15 per cent while the death

rate due to tuberculosis has decreased

3 Among gynecologic patients one in every 25

has cancer of the uterus

4 Five sixths of uterine cancer is primary in
the cervix, one sixth in the body

5 The age limit is from 28 to 75 years average being 48 years

6 Carcinoma of cervix is more frequent from 35 to 45 years of age, carcinoma of the body between 45 to 65 years of age

7 Carcinoma of the body develops over a longer range of years than carcinoma of the cer-

8 Patients with cancer of the cervix give a his tory of child-bearing in 92 per cent of all cases with cancer of the body in 72 per cent

9 Though more carcinoma in parous women, carcinoma of the uterus may develop in nulliparæ

10 Heredity has very little part in the development of uterine cancer

rr Carcinoma of the uterus can be cured by operation in early cases

12. The early diagnosis of carcinoma of the uterus depends on giving close attention to the earliest symptoms. An increase in the bleeding in a woman approaching the menopause demands a careful investigation and a microscopic examination of tissue from the cervix and body. 13 The first symptom in 73 per cent of cases is an increased menstrual or an irregular intermenstrual discharge of blood 14 Watery and foul discharge and pain are

14 Watery and foul discharge and pain are symptoms occurring at a later stage of the disease 15 Carcinoma of the uterus occurs in many healthy and robust looking women Cachexia

occurs only in advanced stages of the disease 16 The radical abdominal operation offers the

only absolute cure for carcinoma of the cervix
17 Carcinoma of the corpus can be cured by a
less radical operation In inoperable cases, temporary rehef can usually be secured by a palliative

18 Most of the patients afflicted with this disease die either from some terminal infection or from

uramia
19 To obtain early diagnosis, the profession as

well as the laity must be educated
20 All women must be taught that the menopause means lessened flowing, and that an increase

at this time may signify disease
21 An organized campaign of education is necessary if more patients are to be saved from cancer in all its forms

N SPROAT HEANEY

Von Winewater: A Rare Form of Carcinoma in a Fibromuscular Polyp of the Uterus Arch

f Gyndk, 1912, zevni, No 1

By Surg, Gynec & Obst

Woman 66 years of age, 5 normal labors Menopause to years ago Four weeks ago, hæmorrhage Foetid and bloody discharge, in vagina, polyp with pedicle in left uterus wall Uterus movable, parametria negative Excision of polyp, vaginal extirpation of uterus Microscopically, a fibromuscular polyp of the mucous membrane showing in it, and in vicinity a malignant growth. This was partially epithelial, an adenocarcinoma Question arose as to whether there was not a sarcoma of the stroma present at the same time. Winewater cites the mutation tumor of Ehrlich and Apolant in the stroma of transplanted mouse carcinoma, with development of a sarcoma within the transplanted carcinoma He concludes that the polyp does not belong to the type of mixed tumor, that it is a diffuse infiltrating carcinoma The cells, apparently of different type, prove on closer examination to all belong to the same form, showing all varieties, from cells without protoplasm and large transparent nucles to the forms rich in protoplasm with small and well stained nuclei He concludes that the apparent sarcomatous degeneration of the stroma is a misconception. The origin of the carcinoma could not be defined Most probably it arose in the

pedicle, advancing into the interior and also upon the adjacent mucous membrane. It was striking that carrinoma could be found everywhere in the polyp, while the uterine wall was enturely free from it. Winewater thinks that the cedematous loose tissue of the polyp was less resent to the invasions of the tumor thin the firm strong fibrous wall of the corpus uter.

Bovée: Statistics in Radical Operation for Cancer of the Cervix Uteri Am J Obst N Y 1912 Itvi, 380 By Surg Gynec & Obst

Between 1808 and 1000 Boxte performed the radical abdominal operation for cancer of the cervix 36 times, with a primary mortality of 25 per cent He reports that 6 cases died within three years from recurrence of cancer, and that 3 have died from other diseases, one eleven years after operation under symptoms of uramia. Ten cases are not traceable Light patients are known to be living without recurrence - one 4 years and 9 months and 7 over 7 years since operation in three of these cases it is over 12 years since the operation was performed He believes that his series though small with its 22 per cent of cures of an average of 10 years abjece. is a sufficient argument for the performance of the radical operation. To lessen hamorrhage he ligates the apterior branches of the iliacs

N SPROAT HEADEN

Macfarlane Retrodisplacements of the Uterus Treated by the Gillian Method of Round Ligament Suspension J Obb & Gonce Brid Finder 1012 xt01 By Surg Gynce & Obst

This atticle is bised on notes of root ases operated upon along the part three vars. This method of operating was chosen after an extensive experience with ventrosuspension and fastion. Of the series fifteen had previously half ventrosuspension per formed with recurrance. Baldy's method is un favorably considered as there is greater hisblidy to recurrence should pregnancy follow at a latter that the Alexander operation has too limited a range of usefulness and shortening of the uterosteral ligaments alone is not regarded as sufficient in itself.

The indications for the operation and the symptoms are given as in accordance with generally accepted ideas to to method. Macfarlane brings the round legaments through peritoneum renders and anterior fascial sheeth about one and a half unches below these of oil 45 cases were the round legaments found to the country of t

Objections to the operation are frankly set forth Quoting from Lewers, these are formulated as

'In this operation the effect also is to produce two 'pillars' in the abdominal cavity, one on each side where the round ligaments come through the artificial opening in the peritoneum, and therefore

the operation appears to be open to the same objections as fration of the uterus, only the more so, maximich as by it two 'pillars' are produced within the abdominal cavity instead of one. It seems possible also that a space may be left between each pillar' and the corresponding groun on each side, if this occurs the effect is to produce a foramen in the position indicated, a possibility therefore exists of partial or even complete intestinal obstruction. Dudle's modification of this operation, avoils the formation of any 'pillar' and is to be preferred."

The author's experience gained from three cases subsequently reopened leads him to believe that

these objections are infinitesimal. As to results Macdrafane's cases show no mortainty the rapidity of convalescence is a great as in my other form of uterine suspension, and the case thrombons occurred but with ultimate and excellent recovery, and in another a recurrence of the malposition took place some days after operation in a prittent who developed an acute pneumo

coccal pulmonary and wound infection Sixteen of the cases subsequently became precnant and no difficults was experienced at the time of delivery. One case aborted at the third month and one at the sixth as the result of hyperpyrexia, the febrile attack being of unascertained cause The uterus in every case involuted normally, and there has been no recurrence of the displacement All the patients complained of pain in the early Bladder trritability was noticed in but three cases all cases of mobile retroflexion have been cured of symptoms and remain well Complete relief is experienced by 85 per cent of those patients in whom complications of an inflammatory nature were discovered, to per cent continue to have some pun and 5 per cent have no rehef. Conservative surgery was practiced as far as possible, with apparently satisfactory results

CARRY CULBERTSON

Mpyo Surgical Treatment of Prolapse of the Uterus and Walls of the Vagina J Am M Ass 1912 hx 1421 By Surg , Gynec & Obst

I rom September 30 1989 to September 1, 1912 628 women were operated on in St. Mary & Hospital,

Mayo Clinic for prolapse of the uterus Group 1 includes those cases occurring during the child bearing pariod in which there is supravagual hip ertrophy of the cervit. They should be treated for the control of the control of the function because minj of these patients will continue to bear children in spite of the prolapse. High amputation of the cervix not closer than one half inch to the internal os in connection with the external shortening of the round legaments and some control of the control of the control of some control of the control of the control of per cent of these patients. It has been said that the permanence of an operation on the round legaments. depends on whether or not there are to be future pregnances. It should not be forgotten that the round ligaments are non strated muscle fibers and part of the wall of the uterus utself, which has been projected forward to the spine of the pubes. The round ligaments undergo hypertrophy duming pregnancy and involution following pregnancy. We have not found that repeated pregnances have influenced the ultimate results in these cases.

Group 2 includes the cases which ordinarily occur between the ages of 45 and 55 in which the uterus is not atrophic and the cystocele is the most striking The Watkins Wertheim operation is the most satisfactory treatment in these cases principles of this operation are correct masmuch as the bladder is first separated from the vagina and then from the anterior wall of the uterus thus restoring the bladder to the abdominal cavity and drawing the fundus of the uterus forward into a complete antiversion, with suture to the anterior vaginal wall so that the bladder will he within the abdominal cavity on the posterior wall of the uterus When the bladder fills with urine it exerts upward traction instead of downward pressure many of these cases the prolapse began in the childbearing period, and supravaginal elongation of the cervix is present, amputation of the cervix may be necessary, as it may be too long to lie in the hollow of the sacrum without flexion. If the uterus be not sufficiently large, that is approximately near the normal size, this operation will fail

Group 3 is composed of the senule cases in which the uterus has undergone advanced atroph) and, together with the vagina cystociel and rectociel, the soutset the body. The most generally useful treatment in these cases is one termed the vagino pelvie firstion operation. The moving the uterus and usually the ovaries and tubes, the round and application of the control of the contr

pelvis

Tait's perineal operation has two important principles. First it uncovers the muscles and structures which had been separated so that they might be accurately sutured together Tait opened the perineum as one would open the abdomen in order to gain access to the parts to be repaired second principle is one which I believe has not been generally recognized The mucosa is lifted well off at each angle, but the dissection is not made deep in the midline The apex or crest of the recto cele is then pushed upward and held inside the vagina, this traction draws on the torn fibers of the external and internal sphincters of the rectum In closing, the lateral muscular structures were brought together and united with the torn sphincter fibers, restoring proper direction to the anal canal upward and inward traction of the crest of the rectocele also elongates the posterior vaginal wall. Curiously enough, the worst type of rectocele may not be associated with prolapse, but exists as a true rectal hernia through the perineal body, in which a circular opening with well defined margins will be found just above the external sphincter. The sac lined with mucosa may be the size of an egg or an orange as it projects from the vagina. This condition is best corrected by the method of Noble—separating the rectal structures from the posterior vaginal with the posterior of the contract of the contract

Polk Suprapuble Plication of Vagina and Conjoined Shortening of the Uterosacral and Broad Ligaments Surg, Gynec & Obst, 1012, xv, 322 By Surg, Gynec & Obst

The author stated that, after trying all the accepted methods he had found this more successful than others had been in his hands. He submitted 18 cases as examples In every case the uterus rested entirely without the body or as far as midway through the cervix, and one case was of prolapse of the vagina and bladder following removal of the uterus years before for procidentia Treatment by pessary had been tried in all of these cases All of the patients did well under operation, making good recovery from the operation, and the ultimate results to date are all that could be desired Eight of the cases had been operated upon two years before, more than half, a year before, and the remainder within the year He found that patients bore separation of the bladder from the vagina with little shock, and that there was little hæmorrhage. that which did occur being easy to control Therefore the operation could not be considered one of The vagina is rendered surgically great risk septic by washing with tincture of iodine opening is made in the abdomen between the um-bilicus and symphysis The uterus is drawn upward, The bladder is separated from the entire front of the vagina down to and beneath the trigone The anterior wall of the vagina is plicated by four or five kangaroo tendons, passed through the lateral wall of the vagina across the anterior face to the opposite lateral wall, through which the suture is also passed By tying these firmly, the anterior wall is turned in A kangaroo tendon, one on either side from before backward, is passed through the broad ligaments, then around the uterosacral ligament from an inch to an inch and a half from the uterus, according to the amount of slack. suture is returned through the broad ligament just above the uterine artery and buried in the anterior face of the uterovaginal junction. In passing through the broad ligament it passes half an inch below its initial track. These two sutures are firmly tied The round ligaments are seized about an inch and a half from the uterus, brought together,

and fastened down at the uterovaginal junction This may be done separately or by means of the same sutures which encircle the uterosacral fold and base line of broad ligament. If the fundus needs to be brought forward, seize the round ligaments one inch further out and attach that point to the uterus where the ligaments spring from its side The peritoneum which belongs to the anterior face of the broad ligament is brought well down into the uterovesical space so as to make the fossa between the uterus and bladder as shallow as possible ridge which represents the anterior wall of the vagina is now treated from the direction of the vagina If there is too much tissue some may be cut away and the proper surfaces statched together If there is not the surfaces are brought into apposi tion by through and through sutures, passed succes sively from below upward, or vice versa as is more The uteters are readily avoided by convenient making sure that separation of the bladder from the vaging is complete and that a like superation of the lateral wall of the vaging is secured. The main arteries are avoided by being outlined by palpation as the sutures are passed

ADNEXAL AND PERIUTERINE CONDITIONS

Voronhoff-Jayle. Grafting Ovaries (Le grafie des ovarres) 26th Cong l'Ass fran de Chir, Paris, Oct o 1012 By Journal de Chirurge.

Numonof reports the results of a series of experiments on ovarana gradium. If the chose young exes for these experiments, because their gental organs most, closely approach those of soman. After taken from another sheep. The ovary was titlen sometimes from lung sammls sometimes from sheep which had been dead for two hours. Voronof, has kept in all only four of these sheep, which were operated as long as its months ago. He presents the March rath and killed the 2006 of list September.

The appendages on one side of this specimen are altogether missing On the other side we find the original tube and the engrafted ovary A thread of fine cicatricial tissue which surrounds it represents the vestiges of the sutures made to fit the grafted ovary into the exact place occupied by the original This overy is normally developed and possesses abundant vascularization The transplanted organ is of such normal appearance that were it not for the cicatricial suture attesting its origin one would not imagine that it had been grafted. Thus heterogene ous grafting of an organ as highly differentiated as the ovary has become realized Its position in relation to the ampulla of the tube permits the migra tion of the ovule toward the uterus and secures physiological function, as one of the sheep operated upon has since become pregnant

Voronoff attributes the success of these heterogeneous graftings in large measure to the fact that he has directed his latest experiments to animals of the same variety and having the same parent. This, has always failed when grafting an overy from one exe to one of another species, these annual were killed at the end of five months and no trace was found of the overy, which had been completely absorbed. The quality of the blood of the receptor and of the donor, from the point of view of hemolysis and agglutuation, must therefore be taken into consideration when we pass from experimentation to human surgery. Heterogeneous grafting of a complex organ cannot succeed except in individuals having the same quality of bloom.

Jayle claims that the time which has claped aime the graftings were made has been no short for practical application. The difficulty is to obtain grafts which are permanent, as the economy of the body tends to absorb all inert issue which is introduced. Jayle has experimented along these lens for fifteen years, and believes that he was the first one in I rance to attempt this work, but he claims never to hive obtained permanent results. He deems it necessary that an interval of about five years must the shorp and the dog in order that we may determine the final results of vory rariting.

In 1897, Jay le presented to the Anatomical Society of Paris a small series of animals upon which he had practiced three classes of ovarian gratting. (1) gratting in the same female from one point of the peritonium to another, (3) gratting the ovary of one animal into an animal of the same species, (4) grafting the ovary of an animal of one species into an animal of the soften species into an animal of the species into an animal of another species.

The question of oxarian transplantation from one species to another is of the greatest interest, for it aims at control of the law of immutability of species and secks by a new means to produce mongreb. Jayli has not succeeded but he believes that we should persevere as the question is too new to accept the live of success as conclusive price of the product of the

Jaja be finds no practical advantage in grathing the ovary from one point of the peritoneum to another point of the organism. In general these graths disappear rapidly because their vasculariation, though not impossible in always quite difficult to insure. Jaja declares that he does not understand the ider of those surgeons who remove the oracy in the interpretable of the declares that he does not understand it is in the peritoneum or in the skin, since of an ovary is to be conserved what better than to leave it in pitce, with its normal vascularization.

Ovarian grafts from an animal of one species into another animal of the same species, or from one woman into another woman no longer have any great practical interest

In animals Jayle has not obtained fecundation If others have been successful in that respect, the fact remains, nevertheless, that success has not been easily insured. In woman—in such exceptional cases where one is obliged to venture everything to obtain fecundity—one might have recourse to the operation but only after making a minute examina-

tion of the patient for tuberculous, syphilis, and various infectious intoxications. The rare observations of success which have been published on this subject are by no means convincing, it is only necessary to study the original literature on such experiments for one to draw his own conclusions.

If the point which voronoff makes concerning the election of the donor in performing an ovarin graft is substantiated by further study, a new difficulty will arise in its practical application in womin Voronoff insists that both exes must come at least from the same herd, having a single bell wither and if possible from the same mother if successful results of choice to the human species the donor and receptor must come from the same family and this would not contribute toward its propagation.

J DUMONT

GYNECOLOGY

McIlroy, The Physiological Influence of Ovarian Secretion Proc Roy Sec Ved 1912 v 342

This consists in a rither exhaustive review of the above subject taking it from many standpoints and the second part consists of experimental work. This experimental work can best be summarized.

in the words of the author

- 1. "The ovary controls the nutrition of the uterus and other reproductive organs since removal of both overes causes atrophy of the musulit and familiar learners of the uterus etc. the degree of atrophy being in direct proportion to the kingth of atrophy being in direct proportion to the kingth of atrophy being in direct proportion to the kingth of a them which has elapsed since the operation. Here is also a diminustion in the uterine bood vessels and a tendency to atheroms a condition very clossly allied to fibross of the uterus in the human subject. The proposed of the propose
- "Removal of the uterus, or retention of uterine secretion does not after the functional development of the ovaries seeing that the elements of the ovary are well preserved after hysterections, and ligation of the uterine borns. Retained uterine Build does not countiract the attorphy of the uterine which takes place after removal of both ovaries. There is thinning out of the uterine wall at the point of greatest distention and no compansatory hypertrophy has been observed."
- 3 "Removal of one ovary causes compensatory, hypertrophy of the other in the ancistrous state" 4 "That the interstitual cells perform the chief lot in the mantenance of the nutrition of the uterus is evidenced by (a) the survival of these cells in gratted ovaries, (b) the folloties becoming absorbed or cystic, and (c) the fact that no atrophy of the uterus occurs when these cells are present. The interstitual cells become functionally active during pro cestrum as shown by their being enlarged and their cytoplasm becoming infiltrated with a lipod substance (in female dog). That the corpus luteum

is the part of the ovary which exerts the most active influence upon the body as a whole is shown by the fact that corpus luteum extract, when injected, causes rise of the general blood pressure"

5 "From the result of one experiment it was found that the ovaries do not play such an important part in the elimination of calcium as is supposed, since after eastration the calcium output was increased, whereas it was diminished as the result of administration of corpus luteum extract."

6 "Removal of the ovaries in rabbits causes an increased deposit of fat in the tissues of the body."

C G GRULE

Wilson. Gelatinous Glandular Cysts of the Ovary and the So-Called Pseudomyzoma of the Peritoneum J Obit & Gynce Beil Impire, 1012, xxu, Oct By Surg , Gynce & Obst

This article is a critical review of the literature on the subject of gelatinous cysts of the ovary, with reference, particularly to the pseudomy xomatous variety supplemented by noise from records of six appeal cases. Of 331 tomors of the ovary, 144 were to provide the property of the ovary, 144 were from the 61 proaf cases, there were 5 others in which the contents were gelatinous, although no extensive flusion into the pertinenal cavity had occurred

In 4 out of my 5 unruptured firm gelatinous cysts, the patients were single women, the fifth was a vi para. Three of the women were under 40

In most of the cases a certain quantity, usually small of free sorpy exudation was present in the perstoneum, although no rupture or perforation of the cast could be made out. One of the cases is of peculiar interest in that, after removal of a rightsided cyst, a second one of the weight of three pounds grew in the left ovary within five months, the left ovary had been observed at the first operation to be shriveled and senile in appearance. second cyst had burst, discharging a large quantity of mucoid fluid into the peritoneal cavity Both cysts were proved by the microscope to be simple glandular in structure This case was of further interest in that the patient had a fibromy oma, and later developed carcinoma of the body of the uterus, of which the first symptom appeared within a year of the second ovariotomy, the patient dying about six years later The removal of the two ovaries caused regression of the fibroid, but did not prevent the subsequent malignant development in the uterus, an important condemnation of the operation of double oophorectomy for uterine fibroid

"Among the six ovarian tumors in the five patients under consideration, three had twisted pedicles, an occurrence that was not noted once in my six cases of pseudomyzoma, although it may have been present in Case: I nanother of the unruptured cases, the tumor grew 25 years after a cyst of the other ovary had been removed."

Pseudomy noma of the peritoneum occurs oftenest between the ages of 40 and 60 Wilson's youngest ' patient was 38 and the oldest 74 The affection is most frequently found in multipara Menstruction usually is not affected, but most of the women have already passed the menopause. The chincal course is rapid, the abdomen becoming distended in a comparatively short time. The time between the appearance of the first symptom and the operation was never longer than eleven months and less than four months in two cases | Enlargement is usually the first sign, though pain may precede (Edema of the legs was first noticed in one case. The physical signs are those of a large ovarian cost the outlines being more or less indefinite. Tenderness on palpa tion is rare

"Pathologically the ovirian cyst in the cases under consideration is a multilocular one made up at its base of a very large number of small and medium size locali from the size of a miller seed or less to that of a walnut. The locub are piled with the characteristic relatinous material transparent homogeneous and either colorless or funtly tinged vellow or green and they are divided by very delicate transparent connective tissue senta thinner than tissue paper and lined by columnic secreting epithelium which is the source of the gelatinous This is arranged in a single laver and material is seen in different stages of rest and activity

The pedicle of the cyst was well formed in four cases in one of which there was a hamatoma around the ovarian vessels for which no cause could be made out In one instance the growth had invaded the broad brament and at the operation there was some difficulty in clearing the discuss of the lower end. In the sixth instance there was a pseudointralignmentary pedicle the exist having developed in an ovary bound down by old firm adhesions

In none of the six cases was the second ovary affected by the new growth in the case with pseudo intraligamentary development the appendages of the opposite left side were fixed among themselves and to the side of the pelvis and back of the broad ligament by old dense fibrous adhesions, these had involved the ureter leading to its difatation and to hydronephrosis In one case there was a dermoid loculus in the midst of the ovarian cyst

The involvement of the peritoneum was shown by Werth in 1884 to be secondary to rupture of the cost and escape of the contents a plastic chronic in flammation due to the presence of foreign matter in contact with the serous membrane Thus the term chronic pseudomyomatous peritonitis is justi fied for the majority of the cases True implantation metastases are found living and active strands of the secreting epithelium escriping from the cost and becoming attached to any part of the surface of the peritoneum. These implantations are not necessarily confined to the peritoneal cavity as in one case (Taylor's) a large metastatic growth was found in the middle lobe of the right lung

The prognosis is unfavorable "Laparotomy was performed in 33 cases of the cases collected by Strassmann, and 16 of the patients died within four weeks. in 8 of the fatal cases there were no traces of sepsis or of purulent infiltration at the autopsy, the patients died from the fourth to the ninth day, apparently from toxxmia due to the breaking down of the gelatinous material Only 15 cases were cured by the laparotomy, and of these not more than s made a smooth convalescence, in the others there was more or less fever, and in a threatened ileus The outlook in cases of this nature was therefore. very unfavorable, the primary mortality was great, and in those which recovered recurrence frequently took place

The outlook as regards freedom from recurrence must always be doubtful even in the favorable cases where no epithelial transplantation has been discovered at the operation, small buds may lurk unobserved in some of the recesses of the peritoneum, may remain latent for a longer or shorter time, and then burst into renewed activity there is recurrence often after many years"

Of Wilson's cases 5 recovered after operation, one of them in whom there were true metastases, remained well for more than two years, and then died of a psons abscess of unknown origin, many small cysts were present in the pelvis so that renewed active growth might have set in at any time Of the other cases 3 remain well after more than eight seven and two years respectively, while the fourth was operated upon as recently as November 1911 CAREY CLIBERTSON

Chavannez Cystic Tumors of the Ovary with Gascous Contents (Sur les tumeurs kystiques de lovaire à contenu gazueux) 26th Cong de l'Ass fran Chir Paris Cki 7 1912

By Journal de Chirurgie.

The author outlines the principal characteristics of ovarian tumors with giseous contents

I rom the point of view of nathology two hypotheses present themselves either these gases originate in the intestine or in loco. The first theory may explain those cases in which the tumor is of old standing and is shown to be without well marked local and general symptoms. On the other hand, when the development of the disease is rapid, when intestinal adhesions are either absent or not very marked and when operation shows the absence of perforation at is much more logical to assume that microbic infection has caused the formation of the gases in loco

Differential diagnosis must eliminate tuberculous perstanitis and foci of suppurative perstantis, associated with gas formation

Jayle reports a case of graeous cyst which he has observed in a woman 40 years of age, who had for some time been treated with electricity. The patient was affected with a generalized suppurative peritonitis high temperature, and a general adynamic state. The operation proved the existence of pelvic tumor, which had at first been taken for a cyst When punctured, the tumor emitted fortid

eases. When the pocket was opened it gave forth liquid matter, so that the question arose as to whether the tumor was not an overdistended pelvic colon. The pocket had forced the uterus to the left and beneath itself so that it was at first not easy to make out relations Nevertheless the operation was carried out successfully. It was finally shown that it was a cost of the right overs which con tained cases, adhered on all sides to the pelvic organs, especially to the anterior surface of the rectum. It presented neither an aperture nor any point where gas could have gained entrance from without

Recalling the investigations which he had made and presented to the Anatomical Society in Novem ber, 1803 on the pathogenesis of rectovaginal fistulæ after vaginal hysterectomy Jayle thinks that the etiology of giscous cysts of the overy is very simple, the gases are due to mu to organisms which come from the intestine by way of more or less extensive adhesions of the cyst wall with some trart of the intestine more particularly with the pelvic colon or the rectum

Lamoureux. Diffuse Peritonitis Due to Rupture of the Prosalpina (Les péritonnes diffuses par runture de pyosalo nxi trek grad Chir tutz vi 1001 By Journal de Chirutere

Rupture of a pyosalping is a rare accident, so that the author has been able to gather but 27 cases one of them being his own

The onset ordinarily is sudden coming upon a woman in seemingly perfect health either slowly in the course of a few days or in an acute form Some times the patient feels a sensation of cracking but is without any violent pain. The pains are originally Delvie or than but quickly become generalized over the whole abdomen, and are accompanied by yomit ting and constinution, the classic picture of shock is established fever is the rule and the abdomen which in the beginning was retracted becomes tympunitic and hard. Acute superficial tenderness. is present

Vaginal examination shows the presence of more or less extensive pelvic lesions. Left to itself this peritonitis may become encysted but nearly always it is concratized

Diagnosis can rarely be made. One would think either of peritonitis of appendicular origin or of a peritoneal involvement due to rupture of an ectopic pregnancs

The rational treatment of diffuse peritonitis due to rupture of the pyosalpinx must respond to two conditions it must be timely and must have as its principal aim the suppression of the cause of the pentomus. The operation must be timely, mortality does not exceed 50 per cent when the intervention is made within the first 12 hours, it reaches 80 per cent after 40 hours

The perforated tube may be removed alone or together with that of the other side, or together with the appendages of the other side and the uterus by

means of a supravaginal hysterectomy. The minimum operation being all that is necessary (Leiars). total hysterectomy is to be condemned The more conservative method should be employed in those cases where the extent of the lesions of the small pelvis renders enucleation of the appendages either difficult or impossible

The method of choice consists in pure and simple ablation of the appendages

Layage of the pentoneal cavity is rejected by a great majority of authors and drainage is what is most commonly employed

The physician must insist above all on post-operative care the position should be a half sitting one. for the combating of collapse and intoxication. camphor oil or normal salt are employed, for combating intestinal stasis if the case is exceedingly grave enterostoms under local novocame anasthesia may be resorted to, and finally, comiting should be treated by gastric lavage when twentyfour hours have clapsed since the operation

J DUMONT

Stark Dermold Tumors of Both Fallonian Tubes. J Obit & Crynec Brit Empire 1912 xxii Oct By Surg Gynec & Obst.

Stark here reports a case of tubal dermoul cyst. tirst showing that Bourelly in 1010 was able to discover but three such cases by a comprehensive survey of the literature The author's patient was to years of age had been married ten years and never pregnant and menstrusted regularly but profusely and with pain. She came to the physician Examination revealed fixed doughy for sterility swellings on either side of the uterus low down in the posterior pelvis which were taken to be enlarged ovaries Upon operation it was discovered that these masses involved the tubes one on either side The right tube was removed the left tumor was resected only leaving a short potent Lallopian stump on that side The masses were cystic in character and contained sebactous matter, hairs, and bony plates Luch mass was about the size of a tangerine orange and was absolutely separate from the ovaries and broad ligaments which were normal The right cyst involved most of the tube, the left was in the outer third of its tube, the uninvolved portions of which were potent

The other three cases are briefly as follows (1) Insufficiently detailed Pozzi's case Dermoid tumor of the tube with sebrctous glands, hairs, and adipose tissue (Trante de Gynec Cliniq et Obérat) (2) Jacob's case A nullipara of 48, with fibroids of the uterus and adnexal inflammation At the outer end of the left tube was found a lemon size tumor containing subaccous matter and bone, not involving the broad ligament The ovary was normal except for several small scrous cysts (Soc Belge de Gynec., 1809-1900) (3) Notto's case A woman of 25, menstruation regular A pedunculated tumor the size of a large orange was found, growing from the right tube near the uterine cornu, and containing a thick white sebaceous material. The ovary of this side contained a small cyst

Stark considers his case unique in that it is apparently the first one on record of bilateral dermoid cyst of the Fallopian tubes CARRY CHERERTSON

VAGINA

Basset Treatment of Primary Epithelioma of the Clitoris by Operative Surgery (Traitement chirurgical opératoire de l'epithélioma primitif du chtoris) Rev de Chir , 1912 alsu Oct

By Journal de Chirurgie

The treatment of this form of cancer is guided by the general rules that goven surgery of cancer namely, timely extensive intervention which is logically anatomical, that is to say, the correspond ing lymphatic region is extirpated at the same time Basset's investigations have led him to conclude that it is necessary to remove two lymphatic radicles on the right and on the left together with the region of the clitoris - a superior radicle which through the inguinal canal leads to the external genitocrural gland, an inferior radicle which leads to the deep inguinal glands, to Cloquet's gland and to the external genitocrural gland

The incision comprises therefore a double in guinal tract which leads to the base of a trapezoid. encompassing the region of the clitoris, as it passes

a few millimetres below the urethral meatus The large opening of the inguinal canal permits detachment of the superior radicle. Section of the crural arch of the vascular epigastric plexus and of the round bgament permits the detachment of the inferior radicle It seems then as the author says elsewhere that it would have been of advantage to cut the round ligament and the epigastric vessels directly after the det ichment of the superior radicle This operation is repeated on the other side and thus the anatomical levels of the inguinocrural region are successively restored Latirpation of the region of the clitoris comes last it is made above and below by cutting close to the symphysis in order to remove together with the tumor an anistomotic plexus of Lymphatic tissue. The wound is closed by a flap or by autoplasty

As the operation is long and serious, although the author gives the preference to its performance in one stage we must admit that in certain cases it may be done in two stages. The order in which the author has chosen to execute these two stages is, it seems to us, not less subject to criticism than the order frequently adopted in extirpation of cancer of the tongue, to which the author alludes remove the glands in the first stage and leave, even if only for a few weeks an epithelial tumor, which frequently is infected, is to court danger. For by way of the many lymphatics which have been cut, this tumor may divert the cancer cells and agents of infection of the principal focus of infection into the cellular tissues which have been deprived of

their glands. It seems to us that we should more certainly avoid this immediate infection and subsequent relapse if we were to relieve the patient of the tumor in the first stage of the operation, and, all things considered, this removal of the tumor must still remain the principal object of the opera-I ORINGEYO

MISCELLANEOUS

Williams, Murray, and Wallace. An Investigation of the Coliform Organisms in the Healthy and in the Infected Urinary Tract of the Female. J Ohst & Gynec Brit Empire, 1911, By Surg , Gynec & Obst.

In introducing their subject the authors express a doubt as to the correctness of certain statements appearing from time to time in medical literature Their reasons for undertaking this study is best expressed by quotation

The general impression left after reading the most important papers on the subject is that febrile disturbance arising after a gynecological operation, and associated with the presence of a coliform organism (i e a gram negative short, motile bacil lus) in the urine of the patient, is, in most cases, due to that organism, and further, that a stock colon vaccine will greatly amchorate the patient's condi-

Statements such as these appeared to us to be based on two assumptions, firstly that B coli is absent or very rarely present in the bladder of the healthy woman, and secondly that all strains of B coli are alike and they are in fact, as much a definite entity as the bacillus of plague. We thought that these assumptions if wrong, would of necessity had to considerable error and we therefore set ourselves to examine the question "

The discussion is accompanied by a series of charts and tables giving the detailed findings of the cases cited Conclusions are arranged in the followang order

Typical bacillus coli (MacConkey) is found in a considerable percentage of females' urines taken under conditions precluding all source of contamination Ordinarily they have no apparent pathological significance

2 Although in our cases culturally identical agglutination reactions prove that there are wide biological differences between the various strains isolated

As male urines very rarely show the presence of this organism it is reasonable to suppose that the usual path of entry is by way of the perineum and

4 When infection of the urinary tract is present. the coliform organisms isolated show great variation in cultural reactions Vaccines, therefore, should be autogenous, and since the same case may show the presence of more than one organism, vaccines should be prepared from many colonies

5 Vaccine treatment of coliform infections is of pronounced benefit In acute cases, if due care be

taken and the does and intervals carefully regulated, a very marked improvement can be very speeduly produced in the vast imports; of casebut to obtain this very close supervision is necesary. A first dose in acute cases should neverced ten millions, the intervals must be short and if there be any doubt, opsonix indices should be taken

- 6 Subacute or chronic inflammations are equally hops full provided that the doses are suitably increased that it is appreciated that the treatment should be coterminous with the presence of pus in the urine and that this may be a somewhat lengthy process.
- ? Cure does not necessarily imply the sterilization of the urine CARRY CULBERTSON

[Monograph.] Sigwart: The Technique of the Radical Operation of Cancer of the Uterus. J. F. Bergmann, Wiesbaden, Germany 1911

By Surg, Gynec & Obst.

HISTORICAL INTRODUCTION

Sigwart begins with the description of the first abdominal hysterectomy done by William A Freund, on January 30, 1878 It was a cancer of the cervix in a woman 62 years old The technique then practiced is fully described and also the fact that he made use of pelvic elevation, with which the name of Trendelenburg has been intimately associated since 1890, Trendelenburg by his writings having popularized pelvic elevation or, as it is now commonly called, "Trendelenburg posture" But because of the high primary mortality during the early period when the operation was practiced two thirds of the women operated upon dying of shock or of peritonitis and sepsis, the operation did not receive general adoption, especially so since it was shown that the freedom from recurrence which was hoped for, was an illusion Freund s first patient died of recurrence one year after operation

The consequence was that operators turned to the vaginal operation of Czerny (1879), which gave a

comparatively low mortality

The technique employed by Freund at his first operation briefly was Irrigation of the uterine cavity with a 10 per cent carbolic acid solution, pelvic elevation of the patient, so that the head was lower than the pelvis, opening of the abdominal cavity from the symphisis to the umbilicus intestines in the true pelvis were held back by an abdominal gauze pad, and then the uterus was pulled upward by a suture passed through the body Next, the broad ligaments were tied off in continuity, in three parts - first the tube to the ovarian ligament, then the ovarian ligament to the substance of the round ligament, and finally the base of the broad ligament, the last suture was carried down from the round ligament, through the anterior vault to Douglas' pouch After this the bladder vaginal vault, and back again through the posterior vaginal peritoneum was cut through, the bladder pushed off, and the anterior vaginal vault opened After cutting through the posterior peritoneum (Douglas' peritoneum), the posterior vaginal vault was similarly opened, and then the three ligated broad lighten parts severed. In this way the uterus was severed from all its attachments. After irrigating the pelvic cavity with carbolized water, the sutures were drawn tautly through the vaginal opening which brought the anterior and posterior periton; il surface to coapitation, so that a row of interrupted sutures held them toerether.

Different modifications are mentioned, devised by various operators to avoid injury to the ureler and to control bleeding from the uterine artery. The first surgeons who avoided "mass ligatures" were koluczeck (1881) Reuss and lyter Rydygier

Freund recognized the faulty position of the operation as devised by him, in his inaugural address before the International Medical Congress, held in London in 1881 not because of the high primary mortality but chiefly because no better ultimate results were obtained than by vaginal hysterectomy as practiced by Czerny But that Freund recognized, from a pathologic nationated point of view, that the abdominal extirpation was the more rational is shown by the proposition which he had made through Lunkenheld in 1881, that not only the uterus but in connection with it the pelvic glands should be extirpated. And the "mass ligatures" should be dispensed with

In 1881 Bardenheuer reduced, by his method of vaginal drainage, the primary mortality from more

than 70 per cent to 33 per cent

Still not much progress was made, because of the unfavorable ulumate results, and even the primary mortality was too great, until in 1801 a charge was brought about, principally through the efforts of American surgeons — Polk, assisted greatly by Baer, promulgating the advantages of the Bardenheuer drainage and the necessity of Trendelenburg's prive elevation. Polk took advantage of Stimson's method of isolating and separately tying the uterine artery, as nax taught by Stimson in 1880 artery, as nax taught by Stimson in 1880.

The greatest credit, however, is given to Clark (1893) for his contribution toward bringing about a proper technique in the radical operation Clark's writings are especially valuable because of the excellent drawings accompanying his description, which for that period have not their equal in literature. The only work worthly of mentioning alongside

We wish to acknowledge to the publishers our thanks for the privilege of reproducing these Elustrations.

of Clark's is an article by Mackenrodt, of Berlin (1801)

Almost simultaneously with Clvrk, Rumpf (1882) and Ries (1892) independently of each other, described two different methods of total extrepation, which in their own way, showed a decided advancement in technique By comparison of the three different methods that of Clark and Rumpf is nearer to the technique generally used today than the control of th

In Germany it is Wertheim who by his persistent work brought to full credit again the abdominal total exterpation

SPECIAL TECHNIQUE

 Preparation for operation. The bowels must be thoroughly emptied castor oil given in malted beer is to be preferred and sorpsuds enemita, occasionally when castor oil is not borne. I psomsalts is used.

The patient is given a tablespoonful of castor oil as soon as she enters the hospital. On the day before operation another table spoonful of castor oil is given and only fluid dat. During the afternoon before the operation the pubis is shaved after which an enema of warm suapsuds 11, litres is given. and after this has been very effectual a warm bath Then the woman is put into a freshly prepared bed and an application of to percent alcohol is placed upon the abdomen and genitals which is held in place by a targe I binder The applica tion is changed several times. Over night this is changed for a sublimate application which remains on the patient until the time of operation women are not permitted to get up again nor to use the general toilet Vaginal douches of peroxide of hydrogen or sublimate according to the degree of purulent secretion are given. Half a gramme of veronal is given during the night to overcome restlessness

If the women are unusually weak some modification of the preparatory treatment may be desirable

2 Narcous Women among the better classes are not so resulty made insensiture to surgical interactions by lumbri anasthesia as are women of the ordinary, classes — the working class. If the effect desired is not obtained so that inhalitated action of the secural poisons — scopolaring with morphin, noxocurin, with or without alternilin, the drugs used for inhalitation anaesthesia — all combined, have a more dangerous effect.

If, however, the lumbar anosthesia is perfect, it is so much superior that the occasional omission of its effect is not likely to eliminate its use in practice. This is especially the case in cancer operations since the stomach and kidney functions, important freetors are not impaired by spinal analgesia.

The proper technique of lumbar anæsthesia is of the utmost importance. The method in use is One hour before operation, the woman receives subcutantously out important and o ecosy scopolamin. The evening prior to operation, og to it of strongly spires. Stovain is used for the spiral injection Adrenalin has been discontinued.

The myection is maile with the patient in a sitting posture the spine well curved. The needle is inserted in the space between the second and than district the space between the second and than district the space of the space

3 Disinfection and taginal preparation of the audiomial parties does not differ from that used for other laparotomics. Todane too, is used, but before the sodine printing the abdomen is thoroughly washed with bename and sublimate alcohol.

Opinions differ as to the vaginal preparation of the cancer for instance Krönig and Dolerkin fear curetting because it may disseminate carcinoma germs into deeper structures, and on the other hand, those already present there cannot be destroyed by curetting.

In Humm 8 sinut this believe it is best to rapidly destroy all breaking down cancerous structure with a shirp curette or under some circumstances with escisors and then put onto the surface a hard-exhar, with actual cauters (Taqueth) (are must be taken not to cauterize too deeph) if the cancer is in an advanced stage because of the danger of injury to the rectum and blidder.

After cauterization, the vacina is first chared with alcohol and then with sublimate, it is then dried and a 5 per cent natrate of salver solution is poured into the vagina and allowed to remain in contact a short The narrate of silver independently of its cauterizing effect forms a coagulation layer over the carcinoma and vaginal wall, which, at least temporarily prevents germs from the interior from penetrating through it Batteriological tests have shown the superiority of nitrate of silver for that purpose After removal of the superfluous nitrate of silver solution the vagina is tamponed tightly with voform gauze, so as to lift up the uterus and ureters, to the end of the gauze a clamp is attached, which protrudes from the vulva so that it may be withdrawn readily when desired

Nurses and assistants who were in any way connected with the "preparatory operation" should not, if it can be avoided assist at the radical operation. If the surgeon himself found it desirable to do the preparatory operation, the customary precautions as to asepsis should be carefully looked after between the two operations

Neither the instruments used nor the room in which the preparatory operation was done should be used for the final operation

4 Abdominal incision, care of the abdominal parietes and isolation of the field of operation, pelvic elevation. The best method of miking the abdominal incision so as to secure adequate exposure of the field of operation is still a mooted question.

In the Imperial University clinic the ordinary median incision is used from the symphisis to the numbilicus or a little above this when necessary Occasionally the insertions of the recti muscles at the symphisy are nucked (shight) incised). This then

gives sufficient space to work properly

To avoid the danger caused by soiling the edges of the nound with carcinoma elements the entire wound is protected with a double fold of a guize naplun which envelops one larer of Bilirothbatist (similar to oil silk). This is sewn onto the abdomnial wall by three through and through autures (Fig. 1). The other side is treated similarly so that no part of the abdominal wound is left exposed. This protection also prevents too much pressure by the abdominal retractors.

To hold back the intestines a very large compress composed of several thicknesses of gauze, two metres long and ten centimetres in width is used. Such large gruze burger gives better satisfaction than

numerous smaller compresses

The operation is done with the prizing in extreme period of the shoulder braces on the trible are provided with inflated rubber cushions, and the head rests on a movable head rist, permitting the head to be out at any angle.

5 General procedure of the operation exposure of the field of operation position of the assistants The position of the operator must be changed during the operation to give better success to a particular field of work The operation is begun by the operator standing on the right side of the patient to do the work on the left side A large abdominal retractor (Stockel's) is used at the lower angle of the wound and is left in place during the entire opera The abdominal wall of the left side is held well back by an assistant with a large retractor, so that the base of the ligament is exposed particularly so when an assistant standing behind the operator pulls the uterus well over to the right side (11g 2) Non the left spermatic vessels are tied and the anterior peritoneal fold of broad ligament split, the ligament is unfolded, the left ureter exposed the uterine artery searched for and tied and finally the ureter is traced to the bladder and isolated and the bladder pushed off the cervix

Now the operator and assistants reverse their positions and a similar technique is used for the opposite side. Then the pertioneum of Douglas pouch is cut, the rectum pushed off, the vagina severed, and the extirpation of the parametria consummated. After the extirpation, the operator

resumes his former position on the right side of the patient and the pertinonal totel is attended to the suturing of the vagina to the peritoneum anteriorly the bladder, and posteriorly to Douglas' peritoneum, the tying of clamped parts, the extirpation of glands and the uniting of the peritoneal folds of the broad ligaments.

During the entire operation the principle of simplicity should be predominant, only one assistant may come in direct contact with the wound

6 Fhe separate steps of the operation (a) Opening and Topography of the Parametrn—The several methods used by others—and here again Clark's method is highly spoken of and also that formerly used by Bumm—are first discussed briefly.

The present technique is as follows The uterus is grasped with two pairs of volsellum forceps, one on the left and one on the right uterine end of the tubes, and pulled toward the symphisis and to the By pulling the left adnexum the left inoft and w turt shear is tasmend scriptfoldelibrary spermatic vessels are readily seen, they are grasped between two clamps out and tied at once the uterus may be drawn toward the promontory of the sacrum so as to bring the anterior broad ligament fold well into sight. With a crescent shaped incision the anterior fold of the ligament is split over and past the round beament, and the incision is continued in the vesico uterine plica (peritoneum) to the median line (Lig. 3). The peripheral end of the round lig tment is immediately tied with a catgut. which material is used throughout as intrangritoneal ligature and suture material. From the solit in the anterior fold of the ligament one can now bluntly dissect his way with the finger and forcers unfolding the loose connective tissue of the brament favers of connective tissue diverge in the direction of the ureters and large vessels. It is therefore important that one separate them in that direction. because by the observance of this one may unfold the ligiment more readily without injury to small blood vessels to bring into view the ureter which is attached in a hanging position to the median fold of the lig ment and it is best to let it remain in that In the depth as in an antiomical specimen the large vessels may be seen and readily traced to the bifurcation of the iliac artery (Lig 4)

Because the tissue of the ligament is so easily separated in its long direction, the bundle of uterine vessels becomes conspicuous since its direction is transverse to the separated connective tissue fibres The uterine vessels over the ureter must be isolated, so that the branching off of the superior vesical artery is also brought into view. Only in exceptional instances during the dult separation of the ligament tissue, the ureter is drawn over with the lateral fold With this possibility one must of the hgament count, so that one does not unnecessarily dig into the depth at the median fold, because the ureter hangs rather superficially on the lateral fold How important it is not to continue with the operation until the ureter is clearly seen was shown in an instance in which the ureter remained attached to the lateral fold, and was therefore not found in its typical position. It was decided to first locate the uterine artery, to find the ureter from that point. In doing so, the none reposed ureter got into the clamp, which was intended to catch the uterine artery, and was severed.

Inflammatory changes in the higaments may make the blunt unfolding very difficult, inasmuch as the more or less infiltrated itssue will cause a nighty, and more intimate addessions to it and the ureter and vessels. The presence of much fat will also cause much difficulty in finding the ureter, and one must be very careful in these cases so as not to get

into wrong strata

(b) Ligation of the Uterine Artery - If the ureter and blood-vessels have been exposed accord ing to the method described the ligation of the uterine vessels causes no difficulty The vessels crossing the ureter transversely are caught between two clamps, cut, and ligated. In tying the uterine artery we must endeavor to avoid the superior vesical artery The uterine artery and the superior vesical artery originate, as a rule, in a short common trunk from the hypogastric artery, for this reason one should not tie too closely to the hypogastric artery, but rather median from the branching off (bifurcation) of the superior vesical artery Gangrene of the bladder may ensue from the tying of the superior vesical artery Bumm saw a fatal second ary hamorrhage from the hypogastric artery, because the uterine artery, before the branching off of the superior vesical artery, was ned at the short common trunk, too near to the hypogastric artery

When the uterane vessels passing over the wreter have been ligated, one must — to this Bumm cills special attention — see I, beneath the urterr there is another deep uterane vern (Fig. 3). Howe is not careful about this — the venn being frequently precent — were submitted and preceded preceded preceded to the preceded preceded to the pretonaterable complication from an endeavor to contot the bleeding, by further injury to the adjoining

venous plexuses

(c) Lyposure of the Ureter to the Bladder-After the uterus evageds have been cared for on the left side, the ureter is dissected out of its parameterial embedment and traced to its insertion into the bladder, which is then pushed off from its under lying attructure. Until the highation of the uterus evassels has been completed the operation is comparatively simple, whether the canner is in its beginning stages of further advanced to his order hand, the isolation of the whether the control of the

If one holds up the uterine end of the severed uterine artery with a pair of forceps and draws it toward the uterus over the ureter (Fig. 6), one can see that the ureter is attached to the cerux by this connective tissue bands, which go from the uterine vessels to the cervix, these bands are put on slight tension, and define themselves sharply from the ureter whea the uterine artery is littled up, and may be severed without difficulty or risk, with scissors,

close to the ureter The connection between the vessels and the ureter being severed, the ureter can now be worked out of its parametrial bed, the vessels in toto with the lymphatics and glands remain in contact with the uterus Usually it is possible to isolate the ureter entirely from the bladder by blunt dissection, by lifting it with a pair of anatomical forcers. Occa sionally, however, when it is adherent by inflamma tory infiltrated tissue, scissors must be used to sever the connection of the ureter from the more intimate adhesions from the paracervical tissue, before it enters the bladder But whatever can be separated bluntly should be done so Particularly the lateral region of the ureter, at its entrance into the bladder. requires much care, because of the frequently distended veins of the vesicovaginal plexus

The separation of the bladder from the cervix at the insertion of the uterus is made easier; if the bladder is held forward with a broad retractor. By this the bands of issue which come from the cervipartly above and partly below the uterer, are put on tension, and the urrefer is plainly visible at its insertion into the bladder. In this way the vagina

can be fully isolated anteriorly.

(d) Venous Harmostass — Generally, by following the directions given the venis in the depth of the pelvis, leading to the median that ven may be avoided. One can usually avoid venous bleeding if one holds to the rule, after solating the urreter, legating the uterien artery, pushing off the bladder on the left safe, and thus having clearly exposed and the the base of the broad ligament and the deep seated veins alone, and turn to the right sade of the pelvis and do similar now. The attack on the roots of the parametria, and with that the opening of the deep venous plexies, should be left as the last step of the extripation, after the arterial blood supply to the vaguna has been also

Should one be unfortunate, honever, and cause an injury, it is best to follow Biamm's advace, and make no attempt to control the bleeding by an application of clamps or mopping with pads. Such procedure may only increase the himorrhage by the procedure may only increase the himorrhage by the himorrhage surface place carefully an abdominal pad and continues the operation in the regular way. It is likely that when the extragilor has been completed the himorrhage will have ceased, or that only an occasional damp new bear different particular than the carefully and the large way of the control of the co

(c) Incision of the Posterior (Douglas') Petitorum, Pushing Off of the Rectum from the togun. The Man of the Vagna. — When the ureter on the left sade, to its insertion into the bladder, has been isolated, and the bladder itself separated from its underlying structure, so that not only the cervar is bared in front, but also the vagna isolated far downward, the postition of the operator is reversed and a similar technical procedure is followed on the right side. The anterior semilurar-shaped incision is, of course, made so that it will meet the similar incision in the vestico-utrien plica of the opposite side.

vesico-uterine plica of the opposite side When the bladder and ureter have also been liberated on the right side, the first principal part of the operation is done, the urinary apparatus has been separated from the organ to be extirpated, and the four sources of blood which supply the uterus have been cared for Now the peritoneum posteriorly between the spermatic pedicles is cut through To do this the uterus is pulled vigorously toward the symphisis, which elevates Douglas' pouch. The incision is carried from one pedicle of the infundibulopelyic over the folds of Douglas, about on a level with the vaginal portion of the cervix, to the pedicle of the spermatic vessels of the opposite side ly the pentoneum can be pushed off bluntly, which causes the rectum, which has frequently been pulled up also, to sink Injury to the ureters is easily avoided, since they are exposed on either side (Figs 7 and 8) It must be borne in mind, however, that laterally they are within one half centimetre of the posterior peritoneal incision. Injuries of the ureters have, therefore, been of repeated occurrence at that point

If the peritoneum is not pushed off easily, a blunt separation should not be insisted on, because of the risk of breaking through into the vagina

After complete separation of the posterior peritoneum, we have made the preparation for extirpation of the parametria

(f) Extirpation of the Parametria — It is to Mackenord's credit that, as early as 1594 he persistently insisted upon the necessity of excising the parametria extensively. He demonstrated as the result of his anatomical studies the practical possibility not only of isolating the ureters in the parametria, but also of extirpating the parametrium beyond the ureter

The angular clamps used by Werthem to close of the carcinomatous crafte in the vaguan necessarily grasp some parametrial pedicle. This is not destrable, and to overcome it, Suprart, on the redestrable, and to overcome it, Suprart, on the redestrable of the vaguant clamp constructed which makes it saw yagmai the properties of the vaguant tube some distance beneath the carcinoma without the possibility of also getting the parametria nuts grasp (Fig 6). During the application of the clamp the physician must keep the ureters of the vaguant tubes of the vaguant which is the control of the vaguant which is the properties of the vaguant which is the control of the vaguant which is the vaguant vaguant which is the vaguant vaguant which is the vaguant v

laterally, quite extensively, with the finger. Having grasped the uterus with forceps, the cancerous area being well occluded, the entire specimen is held only by the broad roots of the parametria (Fig. 6). When one now pulls with the clamp, the roots of the parametria are shown as broad masses and may be excised to the pelicy will, in part bluntly and in part with scissors. The bleeding parts are at once caught

In taking out the parametria it is advisable to first attack the good side, since after extirpating one side the mobility of the other is markedly increased, even if it is markedly infiltrated, so that excision is made much easier The excision is begun at the anterior parametrial roots, which are best made accessible by holding the ureter and bladder outward and upward as much as possible, while the operator makes strong traction on the vaginal clamp When the anterior parts of the parametria are severed, the connective and fatty tissue may be peeled out laterally from the rectum, and, gradually progressing toward the posterior roots of the parametria, these may, in part bluntly and in part with scissors, be enucleated and the bleeding areas grasped with clamps

When the uterus with the parametria has been extirpated, one may see exposed, to the right and to the left in the depth of the peivis, the levator, covered by the deep pelvic fascia

As a prerequisite for the proper application of the vaginal clamp, the rectum must be extensively freed, so that the vagina is isolated as far behind as in front, at least to the middle third of the vaginal tube

If the cul de sac of Douglas is obliterated by adhesions, the use of any kind of clamp is not advisable, because the rectum cannot be pushed off satisfactorily In such cases, the old method of first incising through the anterior vaginal wall is best (the vaginal tampon having previously been removed), and then, with care, because of the close proximity of the rectum, the knife is guided through the posterior vaginal wall. Now the two vaginal edges are coapted and clamped to close off the This part of the operation should be carcinoma done with exactness, and quickly After the coaptation of the anterior and posterior vaginal wall. the upper part of the posterior vaginal wall may be separated from below upward with the finger, while traction is made with the other hand on the clamps attached to the vaginal tube

Mackenrodt is right when he says that the operanion really begins when estirpation of the parametra is started. This is the phase which decides the future of the patient. The more radically this is done, the greater the primary mortality. A man who has a very high primary mortality, if he operates really radically, is not to be criticised adversely.

(g) Extirpation of the Glands—The last act of the operation, before closure of the peritoneum, is the "search for glands" Surgically it would be more correct to begin the operation peripherally, taking

the iliac and hypograttic glunds with the lymphatics going toward the uterus, and, without injury to any of these structures, extirpate them in continuity with the pirametria and uterus, but this is not generally possible without much risk because of technical difficulties as one will realize who has worked on difficulties.

The intervention for the removal of glands should be begun at the periphery, extirpting them with their fatty and connective tissue. Frequently, beginning with the gland at the bifurcation of the common liac artery a whole chain of glands along the external live, going to nearly beneath Poupart's ligitiment, may be extirpted in continuity.

To extirpate the lymphatic glands the thin membrane which surrounds and attaches them to the underlying vessels must be incised, then bluntly

enucleating the gland with its surrounding fat. This is not, however, always possible

If one has loosened the glands they are still attached by firmentous bands along the vein which are put on tension when it is attempted to enucleate the gland. These bands must not be forn noreut, they can usually he traced for some distance often to the gland pocket close to the uterus. Via rule several ligitums must be applied because the brinds heding to the glands bleed easily

After the glands have been found and enucle ited and the lightures applied to even the smallest bleed ing vessels so that the wound is dry of blood the closure of the peritoneum may be done

On general surgical principles drainage of such a large wound surface would be proper. Not so in our case, for obvious reasons.

Without describing the different methods that have been used by various operators the technique now used at Bumm's clinic is described as follows

To gurd the bladder the personeam of the bludder is attached to the edge of the anterior vaginal wall with interrupted citigat sutures. So, we obtain hirmostass of the anterior vigand will and also complete covering of the bludder. This important for the function of the bludder, asing in the prevention of paress. The lateral angles of the vagina require particular attention as to have not seen as the part of the vigans must be satured with exactival. In close proximity to these lateral vaginal angles the ureters enter the bladder, hence, be careful.

Next the bared rectum must be cared for, which is done in a similar manner by attriching the Dougliss' participation with interrupted sutures to the posterior vaginal wall. Care must be taken not to enter the needle too deeply lest a fistual develops

subsequently.

As the result of the two rows of sutures the wound surface in the pelvis has been greatly reduced in size, so that to the right and left there is only a peritoneal gip from the pedicle of the specmatic vessels to the angles of the vagina behind each of which the ureter passes into the bladder (1 ig. 11). The median peritoneal fold forms nearly a straight line and

carries at least in its upper part, the still attached ureter. The lateral border of the personeum forms at the point of ligation of the retracted round ligament, a blunt angle, so that, without much retriction of the personal borders, a good view may be had of the still open wound surface, the vessel transler.

After the entire vaginal opening has been sutured to the peritoneum, the lighting of the purst of the parametrum list clamped is attended to. The himostass here may cause considerable technical difficulty, particularly, if with the parametria and entire paracologuem were extrapated, but an absolute, compilete himostassis as necessity if one desires to avoid tampon drainage.

In a few instances in which the complete hemostass was impossible, draining applied according to Amain's method was employed. A passage was made for the tempon from the deepest part of the wound surface between the varied wall and rectum which was brought out laterally to the vulva near to the axis. It is better however, to avoid this

rather complicated form of drainage

(a) Tampon Dranage or Closure of the Pelve Extoneum - Durang former years intrapretioned drunge of the pelvis was adhered to on general properties. A colorum gaues steps wis metics at most properties of the pelvis was a colorum and forceps from above downward into the vagina, and the other half in the true pelvis, to cover completely the intrapertioneal suture. The primity results at the pelvis properties of the properties of the pelvis properties of the properties of has been discontinued unless infectious material comes in contact with the pertoneum.

If no drunge is used the personeum is united with a continuous captus suiture from one spermatic pideck to the other by which the bladder personeum is produced to the Douglas' personeum. If one of the third produced is the continuous of the continuous can be secured with interrupted sutures. The abdominal wall is closed in three layers personeum and muscles with continuous categot, the layers with interrupted all is not the continuous categot, the layers with interrupted all is and the skins with Mitchel's clays from one and a courter to know hore?

To compress the parametrial wounds as much as

possible to prevent even minimal bleeding, the vigina is lamponed with violom gauze, which is removed after 24 to 48 hours. Vertention cathiete is used in every case. To cover the abdominal wound a coviting of collosion is used, and for it least 24 hours, a very wight abdominal hunder with fact the viginal transportation of the control of place the vaginal tampon and over this a "T" binder, are applied.

7 After treatment Although the favorable result of the operation is decided on the table, yet much depends upon the after care and treatment Every patient is placed in a thoroughly warmed

bed and under an electric light heat dome, until she

is in profuse perspiration which indicates body reaction. If there is indication of heart failure 1 000 to 2 000 cc saline infusion is given subcu taneously to which may be added I to 2 grammes digalen or 10 to 20 minims of a 1 1000 adrenalin Attacks of heart failure may chloride solution occur even several days after operation particularly at the time of the first defecation hence care must be used in the administration of laxitives partieu larly in weak women

Post-operative bronchitis and hypostitic piecu monia are best guarded against by the omission of inhalation narcosis and the use of lumbur analysis

instead

If tampon drunage is used the pelvic tampon should remain five days and should be removed piecemeal - a short piece twice daily after the first 24 hours The terminal end of the tampon should always be enveloped in a large loose pid of sterile gauze which increases its capillary drainage ability I too early removal of the pelvic tampon may

cause a fatal result since the secretion may be quite profuse and if the tampon is removed the vagin if wound closes rapidly no exit being afforded to the secretion

Cystatus is nearly always a necessary evil comple

cating radical operations for uterine canter use of the retention catheter for six days diminishes materially the severity of this complication use of internal remedies is preferred as urotropin Large quantities of water should be helmitol Bladder irrigation is a treatment of last drunk resort, since in this class of cases it is considered risky by causing an ascending uncteritis and pychitis. If irrigations are used 2 per cent boric acid solution or in obstinate cases a r to 5 per cent collargol solution is advised

8 Complications during operation. It is not il ways possible even with the aid of cystoscopy to recognize advanced involvement of the bladder or encroachment of the carcinoma around the ureters It may not be possible to strip the bladd r from the cervix because of encroachment of the cancer on the bladder wall or it may be impossible to isolate the ureter because of its right embedment in carcinoma tous parametrium

The walling in' of a ureter in carcinomitous tissue is usually manifested by marked unitiral dilatation above its parametrial part ureteral wall is much injured it is preferable to resect the terminal end and implant the proximal end into the bladder because if a ureteral fistula ensues the complication is more serious than the primary additional intervention of implanting and by resecting and implanting the exection of the carcinomatous parametrium is accomplished more readily

The technique which is now utilized for preteral implantation is. The ureter at its renal end is provided with two silk guy sutures. With a pair of uterine dressing forceps passed through the urethra to the fundus of the bladder where an opening is



his a Protection of the abdominal parietes

made the sutures are grasped and the ureter is drawn into the bladder a distance of from 1 to 11/2 The urcter is then attached by a few sutures which catch the ureteral wall only superficially The main support to the ureter is obtained by high fixation of the bladder so forming a sort of bed upon which the ureter rests. When the edges of the bed are united above the ureter a muff is formed which surrounds the urcter and guarantees certain healing As a last guard of the implantation area an exact peritonial suture is made. The silk guys drawn through the urethra may be sutured to the external genitals (the small labium) or fastened by adhesive plaster. If the ureter has been resected rather high up the fivation of the bladder to the iliae fossa as advised by Witzel answers a good purpose (The latter procedure has been used by Boldt with satisfactory results) If the ureter has been accidentally cut high up a

urctero greterostomy by implanting the renal end into a slit made into the vesical end gives the best results. In instances in which too much of the distal end of the ureter has been destroyed so that neither of the operations mentioned can be done satisfactors ly and if the condition of the patient is such that it is too risky to extirpate the kidney one may tie the renal end of the ureter, and cover the extrem ity with a close peritoneal suture, leaving the kidney to its fate either for subsequent extirpation or as was the case in such an instance in Bumm's clinic

a spontaneous cure may occur



spermatic vessels

If the bladder has been injured either intentional ly or unintentionally the prognosis becomes graver When rectal fistule do occur they usually close

spontaneously. Scrious complications from hymorrhage, with our present knowledge of anatomy (particularly since knowledge of anatomy (particularly since knowledge of technique should be drare occurred in the popular should be drare occurred in the popular should be injured, as occurred in the popularity action my be injured, as occurred in one of the cases. If it is evident that the extraption of carcinomistic glands is too difficult, technically, without injuring the large vessels, it is advisable to hight the hypo

gistric artery and vein prior to extirpiting the

Injuries to the external iliac vein, too have occurred in their experience, but were sutured successfully

o The judging of operability An accurate by

manual vaginal and rectal examination is essential. If the cancer is in its early stage, the uterus mobile the parametria free, without an infiltration detectable anywhere, the case is considered favor able for operation, with a good chance of a permanent cure, by extensive radical enceleation.

In the case of very obese women, the advice also given recently by Franz Zinsser, to operate per vagi-

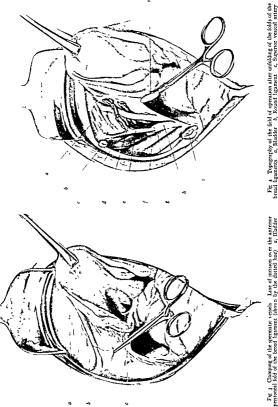
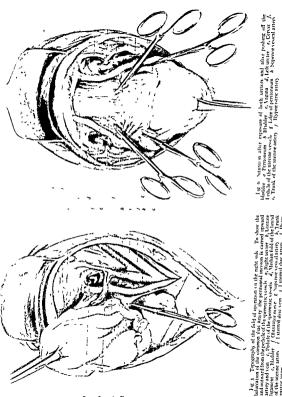


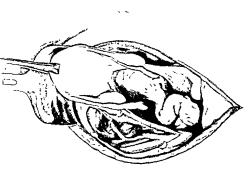
Fig. 4. Topography of the field of operation after unfolding of the folds of the broad ligaments as, Bladder A, Round Ligament as, Superor vessell aftery 4, Deep uterine sent as, Uterine artery 5, External line artery 5, External lilas wen A Hypogasten cartery 7, Pedicle of the spermants ussells

b, Round ligament c Spermatic vessels



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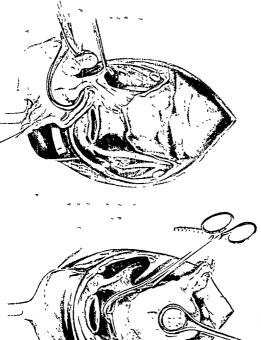
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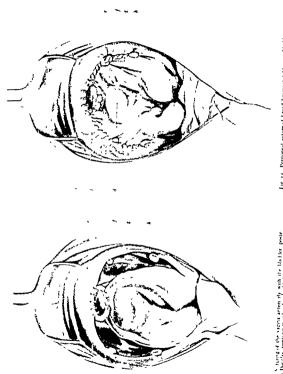
To 2. I now of messon on or the posterior personnel ford of the broad more used a formal section they have by the care of the or 5 superior execut forms by Utenerarity. Cutter of the more personnel are retry. "I ded of boughts." J boughs 5 poor h

114.8 Pushing oil of return Exposure of the cavinal ligaments of turn f Berder of Douglass spectrum of Cardon I ligaments e Wall of rec



Imputation of the vagina a, lagina Fig. 9. Application of the Laginal clamp.

In a Vagna leg to Titopaton of the parameter. The left parameter extred with 11 cots on the farmer to the senter five of 14th parameter, M. and the center for each of 14th canameter, M. and the farmer of Rectum f. Utrene arrayment from the 14th is Related without a great of Parameter and Original for the Constitution of the Constitution of the farmer from h. It for the constitution of the farmer from h. It forces of Dougha for the Constitution of the Constitutio



Lix 12. Pertioneal stature of I mad beament 6-13s. a. Bladder pento-tum. 6. Vagna. c. Douglas' pentoneum. d. Rectum. c. Pedide of ound beament. c. Lateral fold of levad ligament. g. Median 6-04 of A Petule of the spermatic vessels

round beament l road freament neum P x 'cn x v cinal the the with theretan peritoners wherety the tia ther and restorn are Parametrial would cavity . Performents of the had the Christian Chansa Lateral (19 of the brish ligament A . Interest trained to afer & Uneter



Fig. 13 Complete dourse of pickin, crists) by saturing of the bladder and Douglas, pentoneum over the satures of the sagina of Pedicle of round logament. b, Pedicle of the spermatic vessels. c, Bladder personeum d, Pedicle The importance of a careful rectal examination of spermatic vessels c, Rectum

nam if the cancer is in its cirtly stage may be considered but in Bumm's clinic the principle is adhered to to operate on every patient per abdomen if at all possible

If the carcinoma has advanced beyond the boundaries of the uterus no fixed rules can be laid down Then the question of operability is necessari ly a personal equation - an opinion that each oper ator forms for himself The man who is timed and only operates smooth cases' will have a low percentage of operability and also a low primary mortality Both rise however, as soon as the borders of operability are extended

cannot be overestimated in judging the operability of a particular case. By it we do not only judge the extent of parametrial infiltration but also the infil tration of the recto uterine ligaments Massive or less infiltrated bands may be felt per rectum as they diverge and pass toward the pelvic wall but the infiltration does not quite reach it - a sign, there fore that the infiltration is still limited to structure, the removal of which is possible from a technical point of view Such patients should despite the infiltration be operated upon

The propagation of the cancer upon the vagina

and perivaginal tissue for the purpose of judging the operability, since we can also by the abdominal route extirpate the entire vagina with the subvaginal tissue to the vulva, should not decide against operation.

While a cystoscopic examination cannot always clear up the operability from that field, still in every instance of carenoma the examination should be made, because if that shows the bladder to be involved, one need not subject the patient unnecessarily to an abdominal section, unless he has decided to resect a part or the whole of the bladder.

In addition, the cytoscope must give us information as to the function of the Madeey, especially tion as to the function of the Madeey, especially interesting on its function diminashed, we may expect difficulty in solating that areter. But to judge the operationality alone by that would be wright updge the operationality alone by that would be wright moreover, if the other ureter and get a good result by serrificing the kidney on the affected suf-

One should not operate on carcinomatous patients in the presence of febrile temperature, since strepto cocci may be present not only in the carcinomatous tissue but also in thrombosed vessels of the ligaments and in suppurating glands. A non-observance of this precaution may be penalized by death of the

patient of peritonits or sepas to The framry results of operation of 260 patients operated upon in Bumm's clinic, in Halle and in Berlin, 13% were operated by the older tech inque. The number of deaths was 41 or 29 7 pic. cent. Since the use of the present technique (with which, however, pelvic dramage was used until the autumn of 1010 of the 131 patients thus operated upon, 28 died, or 21 per cent. These were all cases of entired of the orrus. Cancer of the body of the cancer of the orrus.

CAUSES OF DEATH

Five women died of collapse and shock But, of these 5, it is believed 2 died of an accumulation of poisons used to bring about narcosis, since in 2 umbar anasthesis had no effect, so that inhalition narcosis became necessary from the beginning of operation. One must be guarded about the prognooperation of the must be guarded about the prognooperation of the must be guarded about the prognoporation of the prognostic prog

It is evident that women of advanced age do not stand the operation so well as younger women since the mortality in women more than 50 years

old was 34 per cent, whereas for those under 40 years it was but 12 per cent.

Of 60 pitients in whom the parametria were not infiltrated at all, or only very slightly, the mortality was 6 6 per cent — only 1 deaths

The greatest mortality was among women upon whom an intentional or unintentional injury took place. There were 10 such patients, of whom 6 died

Of the 71 somen who had parametric infiltration, there were 15 cases in whom the carenoma actually "walled in" the ureter. In one the ureter was resected and in 151 was peeled out of the infiltrated careinomatous parametrium, and only once a ureteral fistual resulted. The patient in whom the ureter was resected died, likewise 3 of the other 13 somen, so in 9 of these cases the ureter recovered from the traumatism caused by difficult reudeation from the traumatism caused by difficult reudeation control to those proposed of the control to the

There were 7 vesical fistulæ of which 4 occurred spontaneously and 3 remained after injury to the bladder, among these there was one vesico addomino prietal istula. The greater number of these fistula closed spontaneously

The rectum was injured to the mucosa two times the of these patients had an advanced carcinoma and died of suppurative cellulitis. In one case the rectum was opened a distance of 3 cm, while pushing off the vagina. The patient made a good recovery without a histula.

Twice a rectovaginal fistula resulted, which closed spontaneously

The taking place of suppuration of the abdommal wall must be regarded as a vry unpleasant occurrence retarding convalescence, in one instance it resulted in death in 17 per cent of the operations at occurred. During the first days the wound to extend the converse of the

In 95 cases glands were extirpated Of these, in 42 cases the glands were proved carcinomatous Twenty three of the pricents who had circinoma-

twenty three of the priterits who had creinomatous glands also had infiltrated parametria. In the other 19 patients the parametria were free Of the women in whom carcinomatous glands were

removed more than five years ago, 3 are still free of recurrence

Bumm s statistics are clear Of 218 women with

carcinoma of the cervix, 133 were operable. Of these, 35 were cured permanently — 16 per cent.

HERMAN J BOLDT

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Patek: Treatment of Abortion Arch f Gynšk, 1911, xevus, 8
Patek discusses the treatment of abortion upon a basis of forz cases observed at K v. Krankenhaus

Patek discusses the treatment of abortion upon a basis of 1012 cases observed at K v. Krankenhaus Wieden in Vienns. The cases were divided into the following groups Imminent abortion, 92, abortion in progress, 166, incomplete abortion, 723, induced abortion, 16, puerperal processes, 15

Trestment in imminent abortion is strictly conservative. Interference for special cases only. His material does not permit Patch to form any conclusions as to the number of these pregnancies going to

term

Abortion in progress the expulsion of the ovum is usually left to nature Indications for interference are persistent or copious harmorrhage and rise of temperature Incomplete abortion Patek pleads for curettage

(excepting special contraindications) irrespective of presence or absence of fever. In all evacuations the author prefers the blunt curette, using laminaria tents for dilation if necessary. He is not in favor of digital evacuation.

In imminent abortion or abortion in progress at fourth to seventh month of pregnancy, he counsels naiting or the use of pituitrin

RESULTS

Incomplete abortion In 60 per cent of cases there is a fall of temperature after curettment, in 28 per cent the temperature remained from 4 to 6 days complications attributable to curettage occurred in 52 per cent, 8 deaths occurred in cases admitted in the last stages, the total mortality was 1 per cent

Abortion in progress Seventy seven per cent of the cases were admitted with fever and remained for after treatment there were two deaths. One of these may be attributed to curettage during acute infection of the adness. There was no rise of temperature after curettage in patients admitted free of fever Total results in febrile abortion prespective of classification (377 cases) treated by curettage, recovery, 86 per cent complications with final recovery, 11 4 per cent mortality, 2 6 per cent Total number of deaths 26, of these 24 were admitted with well advanced peritonitis. In 10 of these cases conservative treatment was carried out In 2 cases of circumscribed peritonitis the pus was evacuated by vaginal incision, 3 cases of diffuse peritonitis were laparotomized, in 2 cases of incom plete abortion, with peritonitis, removal of putrid placenta was followed by laparotomy In 3 cases

with peritonitis and retained placenta, cautious evacuation of placenta was followed by no suc-

Patek advises evacuation if other indications are present in abortion in progress or incomplete, irrespective of bacteriological findings

E. C. Rebert.

Cragin. The Treatment of Ectopic Gestation. Surg. Gynec & Obst., 1912 Hv. 276 By Surg., Gynec. & Obst.

The writer distinguishes two main classes in the treatment of ectopic gestation viz (1) cases of early ectopic gestation (under 6 months), (2) cases of advanced ectopic restation

This point of division at six months is arbitrary. In the writer's judgment, the life of the child during the first six months is negligible, while thereafter the lives of both mother and child are to be considered.

Cases of early ectopic gestation are considered under three heads as follows

(a) Prior to tubal rupture, or abortion As soon as the diagnosis of unruptured ectopic gestation is positively made, removal of the pregnant tube is indicated

(b) Treatment at the time of tubal rupture, or abortion. The main symptoms here are hamorrhage and shock The question to consider is whether to operate immediately and check the hamorthage disregarding shock or whether to defer operation until the nationt has rallied from shock. The author advocates immediate operation unless it is evident that the shock is so profound that operation would undoubtedly kill in which case he watches the pulse closely and if there is any improvement, he defers operation, if the pulse grows steadily worse he proceeds with the operation as soon as proper preparations can be made technique he emphasizes strongly that the sources of hamorrhage are two, viz the ovarian artery in the infundibulopelvic ligament and the uterine artery in the broad bgament near the uterine cornu, and that the operator should proceed immediately to these two points compressing first with thumb and finger and then clamps. He then removes the affected tube, but leaves the unaffected one

(c) Treatment of early ectopic gestation subsequent to tubal rupture, or abortion. If supportation is present vagual drainage should be done, if there is only the boggs hamatocele, then remove the product of conception through the abdominal court.

The treatment of early ectopic gestation is con-

cluded by stating that in a very few selected cases of tubal abortion the author has advised non interference without regret

Treatment of advanced ectopic gestation. After six months it seems justifiable to give the life of the child consideration and allow the pregnancy to approach term, avoiding spurious labor by operating

at eight and one half months

Technique of operation for advanced ectopic preg nancy The crux of the whole matter is management of the placenta, remembering that when rupture has occurred between the layers of the broad ligament, the placenta dissects up the peritoneum and may adhere strongly to the great vessels, and that when rupture is intraperitoneal, the placenta may adhere to the intestines and other Under ordinary circumstances the safest plan in either case is to remove the foctus from the sac and sew the latter to the abdominal wall, pack ing with gauze and allowing the placenta to come away gradually, the rule being to leave the placenta at the time of operation. However, when it is certain that the foctus is dead the rule is to wait longer than eight and one half months with the patient under close observation, before operating, and then remove the entire product of conception at once The article is concluded with the statement that

whenever a diseased ovary is removed and the l'allopian tube upon the same side is healthy the possibility of external migration of the ovum with ectopic gestation developing in that tube should be considered, and the tube removed unless it be the only healthy tube of a childless woman.

LOAD KITEA

Siedeberg The Significance of Albuminuria in Pregnancy Bni M J, 1912, Oct., 1009 By Surg., Gynce & Obst

The author found marked merease in the case of post partum harmorhage in 39c cases of albuminiaria, collected during the last five years from St. Helen's Maternity Hospital Dunedin New Zealand Of this number only 5 cases became eclamptic, though severe tour symptoms showed in many These albumin cases were not necessarily nephritic, though many of this material to the service of the mountain of 25 per cent. By comparison it was mountain of 25 per cent. By Comparison it was mutually of 25 per cent. By Comparison it was mutually of the service of the service

Placenta prævia or low implantation was 8 per cent in the albumin cases, as against 1 3 per cent in the normal cases. In many of the albumin cases the placenta was degenerate in parts

Thus it is evident that the albumin is only the visible sign of profound metabolic changes which are taking place in the body, and if the excretory organs fail to respond to the extra demand made upon

them, the waste products of cell metabolism, probably from the disintegration of protein, circulate in the blood, act as an irritant, and lead to the development of inflammatory changes in the renal tissue, causing degenerative disease and resulting in that type of nephritis of a transient nature which we usually separate from true inflammatory nephritis If the condition is not recognized early, the waste products accumulate and will lead to more serious disease, ultimately resulting in the death of the mother from eclampsia It is fortunate that we have this one sign - the presence of albumin as an indication of the slow toxemia which is going on, as in many cases there is absolutely no other symptom of the mischief which is brewing The fact that hæmorrhages are more frequent in cases of albuminuma is to be expected, since we know that renal inefficiency is associated with serious disturbances of the vascular system, manifested by an increase in the general blood pressure. by cerebral and retinal hamorrhages and epistaxis, and finally leading to changes in every organ of the body, the uterus included

The still births and early deaths which so marked by preponderate in the albumin cases would be accounted for (1) By the direct effect upon the fictus of the toxeme blood, as is shown by the occasional occurrence of ordema in the child Might not the various hamorrhages in the nesh born — for example, in the skin, from the mouth, the navel, the nose and the gastro intestinal tract — be also produced by the circulation of this toxin in the fictal blood? (2) Once degeneration of the placenta sets in, a certain amount of nourishment to the child is cut off and the child dies

M S HENDERSON

Walcher Emptying the Breasts in Treatment of Eclampsia Zeniralbl f Gynak, 1912, xxxvi, Oct By Surg, Gynec & Obst

According to Walcher, the toxins causing eclamps are found both in the mammar gland and in the uterus. The treatment, according to those who believe that the toxins are present in the breasts, is radical amputation of the breasts, or neutralizing of the toxins with injections of air or oxygen into the breasts. Many authors state that in eclampsia there is an overproduction of colositium, which they think is an aid toward the removal of the toxins if this were true, then removal of colositium should show some improvement in the patient's condition. Walcher mussaged the breast of eclamptics until only serum exuded from the nipple. In a series of II cases, reases were undoubtedly benefited.

J L LACENER.

Lichtenstein. Influence of Death of the Fætus on Eclampsia. Zeniralbi f Gynäk, 1912, xxxv, Oct By Surg, Gynec & Obst

Lichtenstein's article is a critique based upon Lamsbach's recent literary research relative to eclampsia and feetal death Lamsbach found in the literature 144 cases, which he arranged as follows

to cases of cessation of eclampsia following fortal death

2 68 cases of onset of eclampsia following fortal death

to cases where macuration existed

b o cases without maceration

o cases of sesseular mole (1) a cases of par tial vesiculation, (2) s cases of complete vesiculation 3 66 cases of intercurrent eclamosia 24 cases where the child lived

20 cases with fortal death

c a cases without record as to the child

I rom these findings the author argues against the theory that eclamosia is arrested by the death of the focus Indeed the argument should rather stand that eclamose, following fortal death is rather of graver prognosis. Of the second group, 68 cases 15 mothers were lost or 22 per cent of the 50 where the restation products were macerated as were lost at 28 per cent. Lightenstein further believes that in order to arrive at a fair conclusion regarding these cases the treatment must be taken into consideration. It is then shown that in the great majority of such cases reported in the literature morphin was used more or less freely, as a result of which fortal death and maternal improvement in cel imposit is not so ant to be cause and effect as that both are the result of the one factor narcotic treatment. I sudence tending to prove that festal death is of favorable influence in columns a should be as follows a The time of first il death and of the last convulsion must be stated exactly Medical treatment must be eliminated from the question 4 Birth should not follow soon after fatal death 4 The child should not long survive the last convulsion , Convulsions and coma should not persent long after death of the focus 6 The mother should survive CARLY CLIBFRISON

Peterson Present Status of Abdominal Carsare in Section When and How Should the Operation be Performed? Phys & Surg., 1912 XXXII Hy Surg Gynec & Obst

In discussing the subject of abdominal Casarcan section, the author considers live important ques tions

lirst in contracted polyis is Createan section or induction of labor most advantageous for mother and child? The induction of labor, when done properly, gives a very low maternal mortality, but the living foctus should always be a part of the obstetric problem and with this procedure the infant mortality is high. The author calls attention to the fact that it is impossible to know exactly the size of the pelvis or the feetal head or to estimate the propulsive strength of the uterine pains Because of this, one would besitate to advise either Casarean section or induction of labor in primiparæ showing a moderate contraction without first giving a test of labor.

Second, under what condition is craniotomy on the living child indicated in preference to Casarean section? When the mother is septic there is a high mortality attending Casarean section, while emptying the uterus from below gives the sentic mother a greater chance for recovery. When the futus is feelile and not likely to live under any condition. it is an ill advised procedure to expose the mother to Ca sarean section When a marked deformity of the child or a monster is diagnosticated, craniotomy is preferable to Casarean section. In the hands of the unskilled either operation is dangerous to the mother but because the perstoneal cavity is uninvaded craniotomy is less dangerous

Third in what cases of contracted pelvis is publotomy preferable to Casarean section? In marked contractions of the pelvis publotomy does not compute with abdominal Casarean section but when the conjugate vera measures from 7 5 to o centimeters, it does. After three or four hours of the second stage of labor without ad cancement and easy traction with forcers fails to a complish anything publictions is the better oper-

ation Lourth under what scotic condition is Casarean section indicated and when under similar conditions is the operation unjustifiable. The writer shows that premature rupture of the membranes and repeated varinal examinations lead to infection. and it times are a distinct contraindication to Casarian section

Lifth the type of operation to be selected in The Porro operation is favored different cases The extraparitoneal operation is in sentic cases discussed and the author's method of performing the classical Casarean section is given in detail.

LABOR AND ITS COMPLICATIONS

Humpstone: Pituitary Extract in Inertia Uteri. Am J Obst . \ 1 1912 less 157

By Surg Gynec & Ohst Humpstone ands that pituiten fails occasionally for some unknown reason. In 64 cases he has seen no unhappy results. He uses 4 cc. of P. D. pituitim as initial dose and gives a doses at 20-minute intervals. In 20 cases where blood pressure was recorded the highest rise in pressure was 20 points and the average was 8 He records a case where 4 cc was given three times in three successive days in an attempt to produce an abortion, without result. In ten women at term or over estimated time he gave three doses of 4 cc each on three successive days without inducing labor Before efficement is fair and dilutation is at least three figures, he would advise against pituitrin. In postpartum atony he believes that pituitrin is valuable, but believes that ergot should be also given. In Cesarean section he gives it after the placing of the sutures, and reports complete success in 6 or 7 cases where it was administered

N SPROAT HEAVEY

MISCELLANEOUS

Loscohlen and Closson: Pituitary Extract in Obatetrics and Gynecology. J Mich St Soc., 1912, x1,650 By Surg Gynec & Obst

Loscohlen and Closson writing from Farke Davis Co's laboratory, state that from this limited clinical use of pituitin they can confirm the obser vations of others that pituitin is a very valuable agent in the treatment of uterine merita and that, administer of in the first and second stages of labor, it greatly strengthens the uterine contractions which in their cases were always rhythmical and

never tetanic

Using dogs, they took tracings of the uterine contractions and blood pressure to determine the effects of pituitrin, which they gave intravenously In the normal dog they found that the uterine tone was increased simultaneously with a marked increase in blood pressure. The increase in blood pressure is of only very short duration. With lactating animals a more marked effect was noted decided stimulation of uterine contraction and increase in uterine tone, these effects being less marked as the period of lactating advances In animals which had just whelped, very marked contractions occurred within one minute of injection The contractions which were at first stormy, later became rhythmical and the rhythm and force continued during the period of observation (two hours) In an animal near term a tracing shows an intense primary contraction appearing on injection. The relaxation from this primary contraction is delayed, later relaxation occurs and regular pains appear which persist during the period of observation

They have guen dogs doess equivalent according to weight, to coor in the human, with no untoward effects except a slight temporary glycosuma. In one dog, the equivalent of 3.50 cc for the human produced considerable uneasiness, some unnary and factal activity, and a mild glycosuma, which are the state of the control of

labo

N SPROAT HEAVEY

Bossi: Importance of Epinephrin Treatment of Osteomalacia. Zentralbi f Gynak, 1912, xxxvi, Oct By Surg, Gynec & Obst

In 1907 8 Bosss showed from experimental work on sheep and from clinical results that (a) in acute cases of osteomalacia and in acute exacerbations of chronic cases, suprarenal extract gave the best and quickest results, (b) the more acute the attack the acute of the control of the suprarenal cland is a portion of the picture of site onnalacia.

Boss cries a case of ostcomalacia in a married woman 40 years old stenle on account of an acute antiflexion. For 13 years dating from a time a few months after her marriage, she had been undergoing treatment for arthritis deformans, sciatica, tuber-culosis of the hip, and rhoundarism. Finally when a diagnosis of ostcomalacia was made she was given (the highest dose), during a period of 9 months, with a complete cure except for the deformity wrought during the 13 years of the disease.

J E LACENER

Newell Indications for the Major Obstetrical Operations Boston If & S J, 1012 clivii, 383 By Surg, Gynec & Obst

Newell discusses here the indications and contraindications for the classical Casarean section and for publictomy, believing that primary Casarean section 1 e, operation before labor begins or in the early hours of a slight labor is attended with practically no maternal or fortal mortality or mor-He thinks that "all patients in whom a bidity serious doubt exists as to the probability of a spontaneous or easy operative labor are best treated by primary Cæsarean section, and that the test of labor, except in cases where the patient chooses to undergo this test with a full understanding of the dangers which it entails, should be obsolete. Beheving that patients who are in poor physical or nervous condition and have not reacted well to the strains of ordinary life are seriously threatened with invalidism as a result of a prolonged labor or severe pain, and though there may be no question as to the outcome of labor in such a one, regarding the life of either mother or child, he would advise that such a patient be sectioned on the basis that the patient is in no condition to stand the strain of labor when it can be avoided by a safe surgical procedure. He holds it conservative to confine by section elderly primiparæ who may never have another child, except when examination shows a distinctly small child and little or no rigidity of the soft parts, unless the mother declines he would also perform it in primiparæ who have been married a number of years without becoming pregnant and in women who have aborted repeatedly and at last have with difficulty been brought to term, since Casarean section offers the best chance for a living child. He advocates Casarean section for those who have had a secondary operation for repair following previous deliveries since delivery per vias naturales would probably again necessitate a secondary oper-

Newell believes that in placenta prævia close to term, with mother and child in good condition, a Casarean section is occasionally advisable, particularly if the cervix is long, rigid and not taken up, or if there is a marked pelvic contraction, if, however, the cervix is soft and easily dilatable, or if child is markedly premature, he would advise pel vic delivery especially if patient has lost much blood

He considers it unwise to section eclamptics except in presence of a pelvic indication or cedema of the vulva.

He considers it good practice in fibroids and Casarean section to have the uterus removed as a routine at a second operation

He would do a publictomy only in those cases which have been in labor for some time, when a pelvic extraction of not less than 714 cm exists and the child is alive and vigorous

Finally he concludes that in such a case publishmy

is safer than a section and hysterectomy N SPROAT HEANEY

Murlin and Bailey Protein Metabolism in Late Pregnancy and the Puerperlum J Am M Ass , 1012, lix 1522 By Surg , Gynec & Ohst

Murlin and Bailey studied the partition of the nitrogen of 100 urines and believe that the ammonia and the amido acid with the undetermined introgen fractions may be as high, or higher in normal women in the last month of pregnancy than in women who have pre-eclamptic signs, or even eclampsia itself Convulsions themselves do not necessarily produce acidosis Following an eclamp tic attack, high ammonia is often due to decom position of urme within the bladder from contamination by the catheter Their conclusions are as follows

The nitrogen fractions of urine in the last month of pregnancy are but slightly different from those in the non pregnant

2 Normal women in the last month of pregnancy may have an ammonia nitrogen as high as 17 per cent (after catharsis) and a combined amido acid and undetermined nitrogen of 10 per cent

Percentage figures are alone deceiving and of little value for the total nitrogen is dependent on the amount of food absorbed, and this is affected by intake, nitrogen retention catharsis, etc.

4 With all the clinical signs of pre eclampsia, the nitrogen partition may be normal even up to and for twenty four hours following the development

of convulsions The mitrogen partition as an evidence of metabolic process cannot be said to offer an index to the pre-eclamptic or the eclamptic condition

Alterations in the structure of the liver, and finally in the metabolic functions of this organ may be, for all that the urmary analysis shows, the result of toxemia which ultimately leads to eclampsia, rather than the cause of the toxemia L G Dway

Haussling. Blood Pressure in Pregnancy, J M Sec A J , 1912, 1x, 242 By Surg , Gynec & Obst

The author analyzes 682 systolic blood pressure readings on 140 women apparently in good health In this series the lowest systolic reading was 80 mm of mercury, the highest, 150 mm of mercury The average was 113 mm In about 84 per cent of the cases the blood pressure fluctuated between 100 and 145 mm. He has seen convulsions occur but once with blood pressure of less than 160 mm

After discussing fully the shortcomings of our various methods of recognizing toxemia of pregnancy before the onset of convulsions, the writer makes a plea for the routine use of the sphygmomanometer as a rapid, inexpensive, and accurate guide to its recognition. His conclusions are as follows.

In the great majority of normal pregnancies systolic blood pressure fluctuates between 100 and

135 mm of mercury 2 The high and low limits in normal cases are

150 and 80 mm, respectively 3 A reading of over 150 mm should be considered abnormal and even in the absence of all

other symptoms of toxxmia, should put the physician on his guard Eclampsia rarely occurs with blood pressure

of less than 160 mm 5 Blood pressure observation is an additional.

aid to and not a substitute for urinalysis in the recognition of the pre eclamptic state

Cathala. Ablation of the Corpus Luteum at the Beginning of Pregnancy in Women (L'ablalation du corps jaune au début de la grossesse chez la femme) La Gynec , 1912 xv1, Aug

By Journal de Chirurgie

Frankel maintains that at the beginning of pregnancy the corpus luteum is necessary to the development of the egg Experimentation on animals (the rabbit the guinea pig, and the dog) has frequently shown that the destruction of the corpus luteum during the first twenty days of gestation was followed by an arrest of pregnancy

Non were the involution of the corpus lateum in woman not to begin until the end of four months, one might conclude that miscarriage was due to the destruction of the corpus luteum during the first

four months

The author reports a case of ovariotomy for a cyst with ablation of the corpus luteum at the beginning of pregnancy, delivery took place at term. From the literature he has gathered it analogous cases, with only a miscarriages, these latter, however, could be explained by a predisposition of the women who had already had miscarriages several times. It seems, then, that in woman the integrity of the corpus luteum is of no importance for the development of pregnancy L. CHEVETER

GENITO-URINARY SURGERY

Durand and Versier: Paranephritic Tumors (Les tumeurs paranéphrétiques) Lyon Chr., 1912, viu., 389 By Journal de Chrurgue

As the result of a personal case, the authors give a short study of these neoplasms, which are rare

Their patient, a woman of 40 years of age, had for ten years suffered from painful abdominal crises which frequently ended in vomiting. Within the last two months these crises had become more violent, the patient had become emaciated and had remarked that her abdomen had increased in size. An enormous tumor was found, which filled out the lower right half of the abdomen, extending from the false ribs to the iliac fossa, reaching beyond the median line and occupying a portion of the left hypochondrium This tumor was irregular in shape and lobulated, hard in places, pseudofluctuant elsewhere, and gave a dull note on percussion Hematemesis, which supervened at the beginning of the period of the patient's sojourn in the hospital, decid ed in favor of rapid intervention

With the first maneuvers of the operation, the tumor burst It enclosed masses of clots and neoplastic growths. Adhesions to the large periverties the extendered ablation completely out of the question, so that it was possible to remove only a portion of the tumor, together with the right kidney, which it had enclosed without invading it, the rest may be a suppossible to remove only a suppossible of the properties of the whole the properties of the whole the properties of the

At the autopsy it was found that the tumor adhered to the vena cava and the aorta, enclosed an otherwise intact suprarenal gland and the right half of the colon, and compressed the stomach without invading it Microscopic examination showed sarcoma

Hundreds of these paranephritic tumors are known and three fourths of them have been encountered in some . From an anatomical point of view they may be divided into four goups: (1) connective tissue tumors, fibromats, lipomats, and above the tissue tumors, fibromats, lipomats, and above origin, only two cases of which tumors of Widman origin, only two cases of which tumors (a) mixed tumors (a half score of cases), and (4) cystic tumors (o cases, according to Chamoll). The bulk of these tumors is always considerable and frequently enormous (up to 4 and 3.6 kg.)

Clinically, they manifest themselves by the obvious mechanical phenomena which result from their volume. Other signs are compression of the perivertebral vessels (orderma, assite, and variocoele), of the intercostal and lumbar nerves (painful irradiations), of the intestines (constipation, chronic

obstruction) and of the stomach (signs of pyloric stenosis). On the other hand, neither disturbance of renal secretion nor compression of the ureters have ever been observed. The exact diagnosis can, in general, he made only after the operation of the latter that have been assured to the control of the state of the control of the volume and the adhesions of the tumor. Chandf gives the following statistics out of 56 cases operated, 16 deaths, 27 recoveries, and 6 recurrences. In most cases the kidney was removed together with the tumor, even though the latter had not invaded it.

CH LENORMANT

Pousson Surgical Treatment of Calculus of the Kidney (Traitement chrurgical des calculus du rein) J d'Urol, 1912, 11, 475 By Journal de Chrurgie.

In an earlier dissertation, which was analyzed in the Journal de Chirurgie, the author studied the surgical treatment of aseptic hithiasis of the kidney.

septic lithnasis is the subject of the present study. It must be borne in mind in the first place, that the anatomico clinical varieties of septic lithnasis are so complex and so difficult to recognize that in a great number of cases the surgeon hesitates to decide between incision of the kidney and its extingation.

Pousson has intervened in 22 cases of infectious calculus the results in these cases being as follows: Two nephrectomies led to 1 death at operation.

2 delayed deaths, and 5 recoveries Nine nephrectomies led to 2 deaths at operation and 7 recoveries

Four nephrotomies, followed by secondary nephrectomies, led to 4 recoveries

One nephrectomy, followed by nephrotomy of the remaining kidney resulted in death

From the immediate point of view, nephrotomy is proven superior to nephrectomy (12 5 per cent of mortality in the former as against 22 per cent in the latter), from the point of late and therapeutic results, it is shown to be inferior to nephrectomy. We must distinguish three chinical types of

suppurating lesions which result from the presence of one or more stones in the infected kidney (1) calculous pyelitis, (2) calculous pyelonephritis, (3) calculous abscesses of the kidney

The first type occurs alone, with exclusion of all forms of suppurating lesions of the parench ma of the kidney, the last two frequently appear in association In 21 cases, Pousson had 5 polities, 1 pyelone-britis, 1 abscess of the kidney, and 2 cases of abscess of the kidney and pyelonephritis combined. For calculus pyeluis either nephrotomy or

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pyelotomy is proper the choice of operation depending upon the presence or absence of more or less intense adhering perinephritis which does not permit removal of the kidney from the cavity, a condition which is unfavorable to pyelotomy Lyenness of the walls of the suppurating for favors complete executation of the only and concretions

If the infectious phenomena continue to develop after nephrotomy, secondary nephrectomy will serve

to check them
In calculous pyclonephrits the presence of
diverticular prolongations, which are more or less
embedded in depressed susses in the renal tissues
renders drainage and disinfection hazardous. Consequently pyclonephritis with multiple persistent
foct and transified or numerous calcula shich are
difficult to extract molecs nephrectomy if the
affection is undaleral and the opposite kidney is

In the third type of suppurating renal nephritis that is collections of pus scattered throughout the prienchym which is a rarer form than the two types previously mentioned, mission and direct curstlement of the pockets may suffice if the hitter are not very numerous and superficial nephrotomy itself becomes insufficient if it is found that foci are scattered in grant numbers throughout all parts of the pieceschyma and primary nephrectomy is ordinarily indictud. J Tavroo

Kouznetzky. The Surgical Treatment of Renal and Ureteral Calculi with a Report of 82 Cases J Urol, 1912 viii 522 By Surg. Gynec & Obst

The author advocates pselolithotomy as the most satisfactory operation for renal calcult. He kases the fatty capsule attached to the anterior wall of the pelvis of the kidney and operates through the exposed posterior surface Secondary ha morrhage and scrous formation are not as common after this operation as after nephrotomy In cases where the stone cannot be removed through the incision in the pelyis a nephrotomy of limited extent may be used as part of a combined operation. He believes that this combination is better than a primary nephrot omy as the injury to the kidney parenchyma is less and secondary hamorrhage is less frequent such an operation he found that the wound in the pelvis healed before the wound in the parenchyma VERNOY C DAVID

Roysing Tuberculosis of the Kidney Ann Surg Phili, 1912 kn 521 By Surg Gynec & Obst

Tuberculous of the kinley may occur without albumnura but the presence of albumnura pyurs, or cystitus should always lead to a careful microscopic and betterological examination of the urine. As to the diagnosis of the kinley of the control of the urine that the diagnosis of the kinley of the control of the urine taken from each kidney of the urine taken from each kidney. A toxic albumnura may be present on the well side as silve

min without cellular elements or organisms would

When the bladder is so diseased that urcteral catheterization is impossible, a bilateral lumbar incision with exposure of each kidney for examina tion, is advisable to determine the localization and extent of the process. As for functional tests of the Lidneys' efficiency, he relies only on the urea output from each kidney He takes a more cheerful view of the prognosis of kidney tuberculosis than formerh and urges early operative removal of the deceased kidney if it is unilateral. Ascending progenital tuberculosis offers a more serious prognosis due to the fact that Lidney involvement is more likely to be biliteral and that the diseased prostate and bladder lead more often to urmary extravasation After removal of the diseased kulney, he sutures the ureter into the wound to prevent formation of retroperatoneal tuberculosis

In tuberculosis of the bladder, if the source of infection has been removed, he used 6 per cent carbolic acid solution as an irrigation with good results. In all he reports 145 nephrectomies for rend tuberculosis with 7 deaths.

LERNON C DIVID

Waldschmidt Tuberculosis of the Kidney. Bell klin Il chusche 1912 xlix Sept

By Sure Gynec & Obst. The records of 40 021 post mortems held in the hospital were examined for occurrence of chronic local kidney tuberculosis, 110 cases were found makes 68 per cent females 32 per cent. Age. 1 to 10 years 2 5 per cent, 20 to 30 8 4 per cent 30 to 40 27 7 Der cent. 40 to 50 26 per cent. 50 to 60. 7 6 per cent 60 to 70 58 per cent The kulnes tuberculosis was bilateral in 70 6 per cent, unilateral in 20 4 per cent It occurred on the right side in \$1.7 per cent on the left side in 17 6 per cent Tuberculosis of other organs was found in 118 cases. Involvement of other organs was as follows Lungs, So per cent male sexual organs 20 1 per cent, female sexual organs o 8 per cent osseous system, to per cent intestinal tract 31 per cent, lymph glands, 22 per cent skin (lupus) o 8 per cent. One hundred surgical cases beginning with the year 1000, gave the following statistics male 52 per cent female 48 per cent fge 1 to 10 years 1 per cent, 10 to 10, 12 per cent 20 to 30 41 per cent, 30 to 40 33 per cent 40 to 50 to per cent, 50 to 60 4 per cent, 60 to 70 0 Of the patients 28 exhibited active tubescular lesions in other organs, namely lungs, 22 per cent lymph glands 3 per cent, bone, 1 per cent male sexual organs a per cent skin (lunus), 2 per cent Healed tuberculosis was found in 16 prinate

Involvement of the bladder as shown by cystoscopic examination. Group: Indings not certain, 14, Group: Involvement of bladder and ureter on the affected side, 43, Group: 3 general bladder involvement 35. In 9 deaths occurring in the surgical cases, autopsas were held. Where one-

sided kadney involvement was diagnosed intra uram, dagnosis was confirmed at autopsy. Waldschmidt concludes that a correct diagnosis of the affected side is possible with quite a degree of certanty by employment of chemicophysical and inuctional methods of examination. The autopsies did not show ascending infections. A tubercular focal infection of the kidney from a primary focus is rare, but the sound kidney is in great danger when this has taken place.

Spontaneous cure Waldschmidt reports one case from his own practice, and cites a case recorded by Ekehorer in Folia Urologica Four cases in the post-mortem material showed occlusion of the ureter, which is commonly the cause of total destruction of the kidney and the so called cure kidney was totally destroyed in all these cases Only in one of these was there a probable final cessa tion of the tubercular process, but the other Lidney was affected. Hence, spontaneous cure is of rare occurrence. By the time obliteration of the ureter brings about this state, the other kidney is usually involved. In his own case he cannot say positively that the process is extinct, and even if so, the result is no better than that of a nephrectomy If this had been done early, the patient would have been spared long years of suffering and danger

Tuberculus treatment is considered uncertain, as even untreated cases may have long periods of absolute freedom from any symptoms. Kummel reported a case of extrapation after more or less extended tuberculu retament. None of the kind may showed signs of healing. In one case, which as a may showed signs of healing. In one case, which as the tuberculus, the associated bladder tuberculosis made prefrentible prozerss.

Braasch: The Results of the Early Diagnosis of Urinary Tuberculosis. Interstate M J, 1912, xxv, 863 By Surg, Gynec & Obst

Brauch's study is based upon the material examined at the Mayo chine, and includes 212 cases operated upon for renal tuberculosis. One of the most important facts developed by an analysis of this material is that so many of the patients were sufferer from renal tuberculosis for from one to five sufferer from renal tuberculosis for from one to five reasons for the delay may give a terminal tuberculosis for from the delay may be a former partitioner, (2) it is not generally known that surgery is the best means to cure tuberculosis of the unoquantal tract, (3) there exists a widespread unoquantal tract, (4) there exists a widespread per cured by means other than surgery, particularly through the use of tuberculosi.

Brasch urges that every case of diurnal bladder irritability with more or less pyuna, persisting over several months, should be considered as renal tuberculosis, until proved otherwise. He then clearly outlines the method by which differentiation is made between tuberculous and non tuberculous

bladder irritability If a careful examination of the urine shows no pus, tuberculosis can be excluded in most cases If pus is present in considerable quantity, the diagnosis of tuberculosis is probable, and depends upon demonstrating the existence of the tubercle bacillus in the urine If looked for repeatedly, this bacillus can be found in the urine in practically every case of early renal tuberculosis. If, however, it cannot be found, we still have an infallible test in the inoculation of a guinea pig with the sediment of a catheterized specimen of urine If owing to circumstances, the guinea pig test is not available, and the urine examination doubtful, we may still secure corroborative testimony by physical and cystoscopic examination For example, a nodular epididymis or prostate, unaccompanied by a history of venereal disease or nocturnal frequency, points almost certainly to renal tuberculosis Likewise, thickened ureters, renal tumor, temperature elevation, loss of weight, radiographic data, etc., are valuable points elicited by physical examination The cystoscopic picture of bladder tuberculosis, while not pathognomonic can usually be recognized by the experienced observer Granted that a diagnosis of urinary tuberculosis

Granted that a diagnosis of urinary tuberculosis has been established, the next important point is to localize the lesson. This process of localization is solely one of cystoscopic technique and depends upon determining (i) the character of bladder infection, (i) primary or secondary foci in the prostate or epididymis, (s) which kidney is tuvolved, and the degree of involvement, (d) functional capac-

ity of remaining kidney

With the diagnosis established and the localization definitely determined, the question of treatment presents itself as the important final point. Under this head Braasch makes the definite statement that, while incipient renal tuberculosis may occasionally recover under treatment by nonsurgical methods, such instances are so exceptional that they cannot be relied upon. He quotes the recoved of jr unoperated cases to substantiate the recovery of the properties of the properties of the curre, the urreter is obliterated and the bidney enals as a caseous, semisolid, menacing source of infection

On the other hand, it is generally recognized that surgical treatment effects a cure in the majority of cases. At the Mayo clinic, the immediate operature mortality in 20, cases was 2 oper cent, 82 per cent were alive one year after operation, 69 per cent being well or greatly improved, and 23 per cent showing hitle or no improvement in bladder symptomy of this latter group of cases, 83 per cent had had their infection more than two years before operation.

As contrandications to operative procedure there are (1) advanced pulmonary infection, (2) multiple leasons of bones, joints, or prostate abscess with perineal fistula, (3) peritonitis, (4) marked bilateral involvement, (5) clinical evidence of renal insufficiency.

M. G. Szilo.

Bernard and Heitz-Boyer: Results of the Different Methods of Treatment for Renal Tuberculosis (Résultats comparés de differents trattements de la tuberculose rénale) 26th Ass fran d Urol, Oct, 1912 By Journal de Chrurge

Bernard and Heitz Boyer distinguish several forms of renal tuberculosis and, eliminating follicular, epithelial and insterstitial nephritis, devote their report exclusively to chronic infiltrating, ulcer ative, caseous tuberculosis of the kidney. It was thought that this question was closed, as the immense majority of chinicians had been convinced by the works of Albarran and others that nephrectomy was the treatment of election. Nephrotomy gives bad results partial nephrectomy is followed by recurrence and is abandoned by all surgeons Simple medical treatment, hygienic and medicinal, was looked upon as mellicient. It has not been demonstrated that heliotherapy and radiotherapy have curative value. But to day some chairians wish to substitute for nephrectomy certain antitula reular agents said to be specific. It behooves us then to compare and criticise the results obtained by nephrectomy and by the so called specific agents

Nephrectomy is based upon a certain number of antomical, chinail, and experimental facts. Renal tuberculous is met either in individuals having other tubercular focu usually small and mactive, or in subjects apparently free from other tubercular methods of the subjects apparently free from other tubercular ments of the unmary apparatus. It is of descending, harmatogenous origin. These reasons suggest the termon all of the renal focus fersible owing to the

unilaterality of the lesion Renal tuberculosis is unilateral at the onset and remains so during a long period of its evolution Tuberculosis in the other kidney is more likely to occur if the kidney primarily involved is not re moved. For instance in 1 012 cases Israel noted after nephrectomy secondary tuberculosis of the other in only 16 per cent of the cases. In nonoperated patients there was secondary tuberculosis in 20 per cent of the cases The transference of the bacilli from one kidney to the other is more frequent than the transference of bacilli from an extrarenal focus When the condition has become bilateral it is less accessible to surgical action Renal tubercu losis is of slow evolution. In a large number of nationts the duration of the disease from the time it is recognized first chincally, is from three to four years, very often, it is of longer duration. This slow evolution is characterized by periods of intermission, which may be very prolonged and which should not be mistaken for cures In fact, the disease is incurable spontaneously

As to the four anatomical processes advanced as evidence of reast duberculosis, one (createrous tuberculosis) has not been demonstrated, the others (sclerosis, serocystic or caseocystic degeneration) are rare and one tresult in real curse, as the lesions do not loss their virulent activity and remain a menace to the system, and especially to the other

kidney, where they determine very often absolutely latent nephropathies. Clinical facts also do not seem to warrant belief in the spontaneous cure of renal tuberculosis. Furthermore, renal tuberculosis has a tendency to tubercularize the ureter and the bladder, the organs of generation, the second kidney.

in fact, the entire organism. All these considerations invite surgical treatment Lach kidney must be studied separately as to its anatomical state and as to its functional value As to the physiological gravity of the removal of one kidney, all chinical and experimental data show that it is nil

Operative mortality is from 1 to 6 per cent The efficacy of intervention is as remarkable as it is benign The remote mortality is but is per cent It is thus seen that nephrectomy saves from death four fifths of the patients having renal tuberculous Lifty per cent of the surviving patients remain completely cured The time of the operation has a great influence upon the general state of the organ-Larly operations give the most favorable results So-called specific medication, in the opinion of the authors, has not proved of value Analysis of the cases under observations shows no real cures that is, cures controlled by ureteral catheterization and inoculation of urine The authors are of the opinion that barring cases in which nephrectomy is impossible, the treatment for renal tuberculosis is the removal of the diseased kidney as soon as the diagnosis is made

Cathein is also of the opinion that treatment with tuberculin has not proved valuable and can show no certain scientific or experimental cure. Improvement such as can be obtained by well conducted medical treatment attends its use. Surgical treat ment has proved its efficacy. He reports 75 early

nephrectomies with only 2 deaths Legueu believes there are two points to consider one is indisputable, the necessity of early nephrectomy, the other is disputable and debated, that is, the value of conservative treatment compared to nephrectomy He has had 120 patients from all walks of life, and he shares the opinion of those who condemn conservative treatment Conservative treatment is not supported by anatomical facts He has seen the evolution of recent lesions during the administration of tuberculin, it is in vain that one looks for cicatricial lesions. He thinks that in some cases treatment by tuberculin is even dangerous, because he has seen februle reactions, disseminations not noticed before the use of tuberculin This is why he advocates nephrectomy in unilateral renal tuberculos13

LaPur reports 22 cases of nephrectory for renal tuberculous. There wer rative and no post-operat, On ne neuron et al. (1) no ne neuron et al. (2) no ne neuron et al. (3) no ne neuron et al. (4) no ne neuron et al. (4) no ne neuron et al. (4) no neuron et al. (4

In these the proportion of cures was from 30 to 40 per cent. Naturally, the term "cure" is elastic in these cases

The treatment of renal tuberculosis must be either medical or surgical. The indications for intervention are furnished by the persistence of local troubles (cystitis, renal pain), by the aggravation of the general state, or by marked diminution of renal function At the onset of the disease, especially when there is only a small quantity of albumin and few casts, with or without pyuria and frequent micturition, medical treatment should be tried After nephrectomy medical treatment should always be used. We must not forget that renal tuberculosis is not a primary tuberculosis individuals having a tubercular kidney, even after removal of the diseased organ, should be considered as subjects of latent tuberculosis, and be kept under supervision and medical treatment

Hogge as yet is not an advocate of tubercubin therapy. He has tried it in four cases, for periods ranging from three and six months to one year He has had only bad results. One of these cases was nephrectomized after four months of treatment and the other after nine months Neither kidney showed any evidence of healing He insists upon the usefulness of nephrectomy in bilateral renal tuber culosis when there is a marked difference in the functional value of the two kidneys tuberculosis, he was able to convince himself by repeated ureteral catheterization, that when one kidney is markedly invaded with tuberculosis, the other kidney is usually also affected (albuminuma, pyuria, tubercular bacilluria)

Rafin has performed 165 nephrectonuses for renal tuberculous. As to his results, he has looked up his cases and finds that 49 of his patients have died, of are incompletely cured, and 53 are completely cured. Those patients are considered as incompletely cured. Those patients are considered as incompletely cured. Those patients are considered as incompletely cured to the control of the control

ureterovesical lesions heal. Pousson has treated with tuberculin only a few cases of renal tuberculosis, and those in the presence of unfavorable conditions, that is, only such subjects as had so advanced lesions that surgical intervention was contraindicated Since 1900 Pousson has performed nephrectomy in all cases of nephrotuberculosis, the only contraindication being lesions of the other kidney or a bad general condition of the patient. Exceptionally he performs nephrotomy. Like other surgeons, he considers this an operation of necessity, giving in itself no therapeutic results but being of value when serious accidents exist, as it places the patient in a state to withstand ultimate nephrectomy. In 70 of his patients who survived the operation, he lost 9 in the year following the operation and 2 in the other years. Fifty-nine of his patients are still alive. In some the operation was performed 12, 13 and 15 years ago After

nephrectomy, vesical symptoms are at times very annoying. They sooner or later subside. One of the curative effects is found in the regular course of pregnancy in nephrectomized patients and the tolerance which these patients show to accidental and operative traumatisms.

Chevasus calls attention to the possible invasion of the supartanals in the course of renal tuberculars. He cause of the supartanals in the course of renal tubercular kidney. He insists upon the advantages of the lateral subperioneal route for extripation of the tuberculous kidney. Owns to the total closure of the operative wound and to the total closure of the operative wound and to the major department of the course of the operative wounds for tuberculosis heal easily without fistula formation.

Bringersma is more than ever convinced that early acphrectomy is the method of choice in unlateral renal tuberculosis. He has treated az cases of renal tuberculosis by Koch's tuberculin and has obtained no results. He has removed 3 kidneys from patients who had been clewhere treated with tuberculin. Examination of these kidneys did not show the slightest evidence of the kidneys did not show the slightest evidence of the in a of the cases he found, adjacent to old lessons, lessons that were undoubtedly recent.

Marion says that cases of cure by medical treatment are few and do not admit of much scruinty. Medical treatment cannot be adopted until it has been my what the case of the case of the case agreement. He reports a patients in mism this specific treatment was not followed by any improve ment of the vesucal lessons, attentation of the pain full symptoms or any cleaning up of the unne, or by any regneral immovement.

Keersmacker began treating renal tuberculoss with tuberculos in 1905. He has treated 650 cases of tuberculoss of the urmary channels. He reports in detail 12 most unfavorable cases in which were noted the complete syndrome—pyruna, strangury, and the complete syndrome—pyruna, strangury, able nature of these cases, the patients, still more observation, present no symptom or only negligible symptoms. Asproal'of his assertions, Keersmacker presents radiographs and specumens of urne. He assign that with well applied treatment he has obtained in hundreds of his patients satisfactory the physican did not apply the treatment well not be abused to the contract of the con

Faul Delbet had a nephrectomies for unidated renal tuberculosis and a recoveres. The cases were operated upon 4, 6, 10 and 11 years ago. A nephrectomy in a case of bulsteral renal tuberculosis prolonged life for two years. A patient upon whom the property years ago is still alive. During the phrectomy years ago is still alive. During the phrectomy years ago is still alive. During the phrectomy is the property of the phrectomy whom he treated medically died. One case treated with minutuming bodies resulted in death. Delbet

has obtained two marked improvements, one by Calmette's tuberculin, the other by sulpho alhaceous essences These patients did not present operable lesions

Tasteau does not know of any case of renal tuberculosis cured by medical treatment. No anatomical proofs have been advanced, and the clausal reports are few and very incomplete. Renal tuberculosis is an extremely frequent affection. It is progressive Nephrectomy can cure it Operative mortality is from 1 to 6 per cent. The large number of complete cures, 50 per cent, should decide the surgeon, as without nephrectomy the patient will surgeon, as without nephrectomy the patient will neptrot be a surgeon, as without nephrectomy the patient will neptrot be a surgeon, as without nephrectory by nowled is any object to suppresses or retards an operation necessary to secure cure.

Carlier has performed 133 nephrectomies, with an operative mortality of 6 per cent. In his last so operations, his operative mortality has been 31/2 per cent He advocates nephrectomy for renal tuberculosis insisting upon an early operation so as to save his patients the contamination of the inferior urinary channels and, in men, of the genera-With such favorable results he does tive organs not believe himself justified in preferring surgical treatment to so called specific medical treatment. the value of which is yet to be demonstrated. He has treated 8 patients, previously nephrectomized. with Spengler's immunizing bodies These patients presented either lesions of the other kidney or of the bladder or the generative organs The results which he has obtained have not satisfied him as to the value of specific medication, but he has noticed no inconvenience attending its use

Orision says that it is dangerous to expect good results from medical treatment. This form of treatment is only of value at onset of the affection when the kidney is still in fairly good state. Our methods of examination do not enable us to know whether the decease is beginning, nor do they inform us of the extent of kidney determents, for the extent of the major decease. The extent of the major determined to the major decease of the extent of the extent of the major determined that the major determined is the extent of the exte

Lavenant does not wish to attack surgical treatment, but he says there is a large place for medical and serum treatment which places the patients in better condution, whether they are operated upon or not. Patients subjected to the immuniants bodies of Spenight have been much improved, in one there was an improvement in the patient's general condition, and disappearance of pus and of bacilli in the urine (demonstrated by bacteriological examination and innoculation of guinea pigs). Heroports several cases benefited by the immuniants bodies of Spenigher

Castaigne has records of 112 cases of renal tuber culosis treated medically Of these, 70 were patients with bilateral renal tuberculosis or general tuberculosis. These cases could not be operated upon Twenty-two other patients had already been nephrectomized, and 10 of these presented a unilateral

tuberculosis In 100 patients, 8 appear cured, at show gradual unprovement, in 30 there was only slight improvement, and in 42 no manifest improvement. Ho no considers that too of these patients were inoperable, and that a most grave prognoss had been made in every case, the statistics are really eloquent in favor of medical treatment. The author believes that the conclusions of the reporters are too pessionstic as to the value of medical treatment on the profession of men holding different opinions on the subject so that they will investigate the subject and decide as to what can be expected of surgical and of medical treatment.

Hartmann has performed 89 operations for renal tuberculosis, 24 nephrotomies, 65 nephrectomies In the 24 nephrotomies, 5 have been improved, 12 have been secondarily penbrectomized, a died from 14 days to a months after operation owing to continuous evolution of the lesions The nephrotomies were followed by nephrectomies as soon as the integrity of the other kidney was established. Sixtyfive penhrectomies have given no operative deaths In almost all of the cases cystitis disappeared spontaneously Although the ureter was not re moved, an abscess developed in only one case. This was due probably to sclerosing of the duct. It is needless to remove the ureter, but to avoid inoculation of the wound it is important to extirpate the renal tuberculous pocket without bursting it. He advocates nephrectomy in renal tuberculosis

J DUMONT

Hunner The Treatment of Pyelitis. Surg. Gynce & Obst., 1912, xv, 444 By Surg., Gynce & Obst

The author presents a comprehensive classification of the causes of pyeluts, dividing them into twee main groups and subdividing each of these Class includes the inflammations of the kidney pelvis not associated with infection, Class 2, the infections of the kidney pelvis due to an underlying urmany tract disorder, and Class 3, the infections of the kidney pelvis in which this is the classification of the kidney pelvis in which this is the classification of the kidney pelvis in which this is the classification of the kidney pelvis in which this is the classification of the kidney in the classification of the kidney in both health and discuss an erretrum bacteria, from the system

Pyehitis probably always requires for its inception some other factor than microbial invasion. The more common of these contributing factors are urinary stasis from any cause, fever, toxemia, and trauma.

In the last analysas, there are comparatively few cases of pyehits which we may regard as pure catarrhal inflammations of the kidney pelvis due to an infection, and unassociated with some mechancal, traumatic, toxic, or chemical predisposing factor. It is therefore illogical to undertake the treat ment of a pyehits case without an investigation of its cause.

In reporting 26 cases of pyehitis, the author excludes his cases associated with tuberculosis and pyogenic infections of the kidney substance, as well as those cases associated with stone in the kidney or ureter. He includes those cases associated with appendicitis and those associated with stricture of the ureter, because they belong to a

comparatively new field of research

He reports cases associated with the following conditions congenital mulformation of the kidney pelvis, interstitial nephritis, exposure to cold with infection, following a gonorrhocal infection, following typhoid fever with typhoid bacteriums, and post-operative pychitis Certain cases are classified as follows an intestinal group apparently due to gastro intestinal disturbances, a cystitis group in which the pyclitis is associated with cystitis, an appendicitis group, a tonsilitis group, associated with stricture of the ureter, a pyehtis of pregnancy group, and a puerperal group

It appears from the report of cases that pychtis is often overlooked or diagnosed as some other disease, particularly as cystitis (the puerperal cases), malaria, and typhoid fever On the other hand, a more fatal error might occur in too implicit depend ence on the urine examination in the cases of pyelitis associated with acute appendicitis

Occasionally one sees a patient with monolateral

or bilateral pyelitis, who seems but little or not at all inconvenienced by the condition but this is rare, and the rule is that the patient suffers with ill health and discomfort quite out of proportion to what might be predicted from an examination of

Treatment The object of treatment is to rid the patient of pain or discomfort and to restore the kidney to the secretion of urine free from pus and bacteria. Many cases of pyelitis clear up under medicinal and hygienic measures. If these fail resort should be had to the semi surgical measure of pelvic lavage

The author has had universal success in the colon bacillus infections by the use of silver nitrate solutions These were first used in a strength of 1 3000, and followed by a flushing with salt solution or boracic acid solution Later, solutions of 1 1000 strength were used, and the author suggests that the flushing with a bland solution may be unneces

Pilcher's lavage with argyrol 25 per cent is men tioned, also Koll's treatment with lavage of 2 per cent aluminum acetate

Vogel: Operation for the Wandering Kidney. Zentralbl f Chir , 1912, xxxix, No 41 By Surg , Gynec & Ohst

Vogel has devised a new method of fixation of the kidney He draws his conclusions from the work of Stiller and of Bier, that floating kidney is not a local affection but rather a part of a so-called constitutional asthenia. This condition includes a number of surgical diseases, based pre eminently upon weakness and non resistance of connective tissue. He has observed the healing of wounds and scar formation in this class of patients and finds these processes

As a consequence the formation of below par connective tissue should not be relied upon as a means of kidney fixation Vogel forms a flap from the capsula propria of the kidney This is carried around the twelfth rib through a slit and reunited with the remainder of the cansule The twelfth rib is resected at a distance from the transverse process, to permit a certain amount of play and The band is render the organ less superficial prepared in such a minner that the upper half of the kidney is covered by the twelfth rib The subrenal space is obliterated by skinning of the peritoneum Tamponade is not employed, as it leads to the formation of extensive scar tissue, which subsequently draws the kidney downward instead E C RIEBFL of supporting it

Chevassu Estimating the Urelc Importance of the Kidney by Means of a Study of Azotæmia and the Constant of Ambard (L'appréctation de la valeur uréique du rein par l'étude de Lazotémie et de la constance d'Ambard) 26th Cong l Ass fran d'Urol Paris Oct o 2012

By Journal de Chirurgie

Chevassu reports the result of 482 renal explorations which he has made at the Hospital Neckar and the results of an investigation of the "azotæmia of Widal' and 'the constant of Amburd" (see Proceedings 1911, pp 518 ff)
He shows with what precision this method permits

the estimation of the ureic function of the kidney, a function which is so essential that any change in it may lead to uramia and which no other method has so far permitted us to estimate with exactness

Thanks to this method, he has been able to satisfy himself that all surgical affections of the kidney may be accompanied with a profound change of the ureic function, it is therefore extremely useful to know before undertaking an operation, whether this function is good, medium, or poor for nephrectomy becomes dangerous in the last instance

By the study of azotæmia and the constant, one can rather frequently make a diagnosis of unilateral or bilateral involvement independently of any exploration of the kidney, one may even thanks to his method, be confident and secure in performing certain nephrectomies when the kidney is altogether inexplorable In affections of the prostate, azotæmia and the constant by revealing the state of the kidneys, permit one to estimate the possible dangers of prostatectomy

F Legueu adds to Chevassu's cases the support of his own experience. He finds the constant an extremely valuable method. It is superior to anything else that we know of at present for esti mating the functioning of the kidney and for knowing the resistance of a patient just prior to operation With respect to patients upon whom nephrectomy is about to be performed, it is perhaps a little exaggerated, in the present state of our knowledge. to base the practice of nephrectomy exclusively upon the evidence of the constant The concentration permits us to operate, confident of security, but it too may deceive us and lead us to refuse operation to patients who are capable of undergoing 1 TREMONT

Rochet | Experimental Attempts at Partial Grafting of a kidney Upon Another kidney (I says experimentative de graffe partielle de rein sur rein 26th Cong I vos fran d'Urol. Paris Oct o 1012 By Journal de Chirurgie

Rochet has made a whole series of experiments on grafting one kidney upon another kidney for rather on grafting fragments of a kidney upon the kidney

of another animal of the species)

The grafted fragment had either the shape of a wedge which was placed between the lips of an incision in the kidney or the shape of a skull cap which replaced an external tragment of the same form previously removed from the kidney animals used in these experiments were rabbits. Of course the most rigorous asentic prevautions were The rabbits which had received the graft were killed in from four to five months

Rochet reports the anatomy al tridings is follows The grafted materials adhered closely but as grafts were not successful, the volume of the grift, which was rather well conserved for several weeks gradual ly decreased until finally absorption was complete In addition, the opposite kidney was clearly injured by the triumatism to the grafted knines, as well as by the process of resorption which followed the grafting. In every case Rochet found the unoper ated Lidney to be iffected with a slight sclerotic 1. DUMOST nephritis

Frans, Wynne and Whipple Reflex Albuminuria, Renal Albuminuria Secondary to Irritation of the Urinary Bladder Bull John Hopkins By Surg Conec & Ohst Host 1012 XVIII ttt

The causation of sub-trute cystetis by means of placing a foreign body in the lumon or the wall of the urinity bladder is followed by an albuminums of varying degree. It might be thought that this alloumin was derived in greater part from the stritated bladder mucosa but careful study shows that in great part it is derived from the kidneys This can be shown by collecting urine from the unter or from the washed bludder during diureus This renal albuminuria may occur in perfectly normal kidneys and may leave no trace of its occurrence in normal organs except for the presence of hyahn casts and the resulting slight dilutation of the uriniferous tubules Catheterization without bladder frritation will cause no albuminuria

Chemical irritation of the bladder mucosa mas be associated with reflex albuminumia, and in this irritated state any mechanical injury, such as may be produced by catheterization or irrigation, is followed by a prompt and marked albuminuria It seems pretty clear that this must be a true nerrous reflex, in which stimuli applied to the bladder mucosa react upon the renal epithelium and modify its secretory activity. It seems highly probable that a similar reflex albuminuria may be found in human cases, and it is obvious that, were this the case it would have an injurious effect upon kidneys especually if already more or less diseased and laboring under difficulties The path of this persous reflex has not been worked out, and it will be interesting to determine whether irritation of the pelvic viscers adjacent to the bludder may not bring about some such reflex since the pelvic viscera are supplied in general from the same nerve plexuses

Corbett Changes in the Kidney Resulting from Tying the Letter Am J M Science, tors. Ily Surg . Gymec & Olet

Chinicians agree that atresia of the ureter usually produces hydronenhrosis in the corresponding kidnes and that this condition may remain or be followed by secondary atrophy

The picture is much the same whether the condition arise from congenital atresia or from sudden senous of the ureter but the effect upon the patient other than the loss of the functionating kidney is not di tinitale established. Conclusions of laboratory workers have not always been identical and the author in this paper has reviewed only the most important works along this line

This paper discusses (1) changes resulting from ligation of the ureter in the kidney on the fied side, (v) the amount of function remaining after atresia of the ureter lasting for various periods of time, c) lesions remaining as a permanent legacy after tying the uccter and at a subsequent date temoying the ligature and (a) changes in the unoperated

Results of atrests of the ureter on the operated kidnes closely resemble a nephritis. The kilney after a 24 hour stenous as heavier than the other and presents alternating light and dark areas glomeruli are included in a zone of congestion areas of degeneration of the convoluted tubules are present and the tubules are tilled with granular detritus with dilatation of the tubules

Viter six days lightion the kidney is very pale and ordematous is increased in size and weight and shows marked by dronephrosis and much destruction of the tubules After twenty six days' ligation there is extreme hydronembrosis, it being in reality a thick walled cyst

In order to determine the secreting power of kidneys whose ureters had been lighted for various mitted to analysis

periods of time the utine was collected and sub-Viter twenty four hours' ligation it was found by the nitrogen content that the kidney was capable only of secreting urine in a very irregular manner, but in time was restored to its full function After six days' ligation, allowing sufficient time for restoration of the circulation, it was found that the kidney was capable of excreting urine containing an amount of nitrogen compatible with nitrogenous equilibrium, while a kidney which had been ligated twenty four days was at first able to excrete almost nothing at all. Subsequently it partially regained its function, later almost centirely losing it. The urnalyses in general confirmed the histological findings. The examinations of the unoperated kidneys, in the author's opinion, showed nothing definite or conclusive.

In view of the fact that some authors claim the production of a nephrotoxic substance in ureteral occlusion, the author injected the contents of hydronephrotic kidneys into normal rabbits, and aside from an apparent decrease in the nitrogen output

no effect was noticed

The author concludes that in order to save anywhere near the full functional capacity of the kidney the ureteral obstruction must be removed not later than sax days. Beyond twenty-sax days the removal of the Ludney seems justifiable, as there remains but little functionating parenchyma, and that hydroc-phrows is always a potential danger, as it may become infected or cause a mechanical disturbance

Paul. Cystitis. Med Herald, 1912, XXXI, 512
By Surg , Gypec. & Obst.

Etuologic predisposing factors are congestion or detention due to large prostate or stricture stone or foreign bodies irritaris as canthandes, turpentine or excess of alcohol or ammonia in the urine, training from rough instrumentation, falls or blows, new growths, tabes, myelitis, and the exanthemata

Exciting organisms are bacillus con tuberculo ss, typhosus and anthracoules, stephosoccus, staphylococcus gonococcus and pneumococcus, staphylococcus gonococcus and pneumococcus, staphylococcus gonococcus and pneumococcus frequently a mred infection apy occur from kidney, urethra, difty instrumentation, from neighboring focus through lymphosic rarely through the blood and from rectum especially it ulceration is present. Either predisposing or exciting cause may be present separately without causing cystils.

Pathology varies from catarthal inflammation with epithelial desguamation and round celled inflitration and external confidence of the bladder wall in acute cases, to chrome inflammatory thickening with ulceration, and in the presence of retention, great dulatation and trabeculation. If there is no retention the bladder becomes atrophic through contraction of connective tissue

The onset is usually acute, becoming chronic, but may be insidious with acute exacerbations Frequent micturation is due to abnormal irritability of sensory nevers in the trigone Rubbing of inflamed surfaces from puckering caused by over-extention of the detensor muscle causes tensemus. Three glass test shows last urnne loaded with puss. The properties of the detensor muscle causes tensemus. The properties of the detensor muscle causes tensemus three points are to microtropic with urne points to tumor or ulcer. Forever, and the properties of the p

new growths and ulcer. Catheterization of the ureters shows kidney lesions Centrifugalized urine should be stained for tubercle bacillus and other organisms, with animal inoculation if tuberculosis is suspected.

Prognosts is good if the etiologic factors can be reached and removed. It is very bad in malignancy

and tuberculosis

Treatment Remove the predisposing factors Catheterize absolutely aspeticially In acute cases rest in bed, catharisis, frequent hot size baths, hot applications over bladder, guard against chill, milk diet, and forced liquids Soda bicarbonate is given for acid urine, hexamethylenamin if alkaline. Morphin or codein with belladonna by mouth or supposatory for tnesmus and frequent micrution. In chronic cases give hexamethylenamin by mouth Locally irrigations with mild antiseptics as boric acid, potassium permanganate, organic silver salts, or silver intrate. As a last resort continuous catheterization, penneal drainage or suprapubic cystotomy with currettage are indicated.

PREDERICK II FALLS.

Chute Some Observations in Cases of Prostatic Obstruction Preventing Overdistended Bladders. Boston M & S J., 1972, clxvii, 607 By Surg., Gynec & Obst

The writer believes that the mortality in operations for the relief of gastric obstructions depends largely on an overdistended condition of the bladder, which, through dilation of the ureter, leads to renal back pressure and crippling of the renal function Two types of this back renal pressure are to be distinguished one in which the urine is aseptic, the other in which it is infected. In the asentic type it is probable that there is an element of nephritis due to pressure, in the infected type there is a pyonephrosis Besides the nephritis element, there is in both types an element of renal embarrassment or functional disability that depends on the back pressure alone and which can be relieved by removal of this pressure This may be determined through success or failure of the operation. The danger in the aseptic type is greater than in the infected, since in the first the seriousness of the condition is often overlooked and any attempt to relieve the back pressure may be followed by infection of the kidney.

The ordinary means of estimating renal efficiency are not of great value in these cases, since they cannot on the one hand give any definite dea of the improvement that will take place from the relief of pressure, or on the other hand give an idea of the diminution of function that will follow infection. A more accurate idea of the patients of tozema that he shows — some referred to the digestive tract, as nausea, romiting, and dry tongue, others, as twitching referred to the nervous system. The attempt in these cases should be to relieve the renal back pressure without adding any injury to the kidneys, either from infection or

auxsthesia. This seems best accomplished in the asseptic cases by suprapulae cystotomy done under cocaine. In the infected cases, an inlying catheter will often be all that is necessary. The write reports cases illustriting certain aspects of the subsect.

Kennedy Uretero-Appendiceal Anastomosis, Surg., Gynec & Obst., 1912, Xv., 464 Hy Surg., Gynec & Obst.

This method of dealing with the right ureter occurred to kennedy during the course of a radical abdominal operation for carcinoma of the cervix uters, when it developed that a very extensive part of the right ureter was embedded in the carcinoma. tous infiltrated tissue Subsequent work on the cadaver and dogs has demonstrated the feasibility of the technique. In certain cases, where the ureter cannot be safely implinted in the bladder this dis position of the greter is preferable to pepbrectoms lumbar drupter or implantation in the colonchance of ascending infection from the appendix is far less than from the colon. The great mobility of the appendix vermiforms and its mesentery favors the operative technique admirably It may be possible to drain both ureters into the appendix but the plan seems to be better adapted for the drainage of the right uniter. Or in the case of complete externation of the bladder unplantation of the left ureter into the colon with the right ureter into the appendix would serve to prolong the function of the right kidnes and consequently the life of the patient

Gerlach's valle is far superior in its valuable action to ain results that have thus far been obtained in the effort to reproduce the valle like action of the vessel orifices of the wreters in the operation of transplanting the urvers into the colon ducer. It is probably not possible to oblique the probable with possible to oblique thing like the effectiveness of the value of Gerlach cent in its most imperfect state of development.

Casper. The Treatment of Enlarged Prostate Therap d Gegenward, 1912 him 183 By Surg , Gynec & Obst

In this article the author urges that the absolute micriation for prostatetomy be strictly adhered to claiming that in this way only are the dangers and the attent of the strictly adhered to parallal tenders and of surround that proposable or panilal catheterization (3) recurrent harmonia for the strictly adhered to the strictly adhered to

The operation is contrandicated in (t) severe general nutritional disturbances such as diabetes, (2) severe pathological conditions of the heart and

kidneys, (3) advanced arteriosclerosis, and (4) in marked septic conditions of the urinary tract. The author strongly advocated the suprapular method of prostatectomy. E. S. Tarsor, Is

Chevassu- Suprapubic Prostatectomy and Local Angesthesia (Prostatectome suspubseme et ansthésia locale) - 26th Cong l'Ass fran d'Urol, Paris Oct 9, 1912 By Journal de Chirurge

Che assu performs suprapulse prostatectomy with reduction of general anesthesis to the minimum, a tube of chierch is not the minimum, a tube of chierch is not the terminated at the moment of caucientian proper, the first steps of the operation having been performed under an analysis. Patients who are operated in this manner do not underso any kind of shock

To insure real dependent drainage of the prostate, early during the days following the operation, checks use in place a pecial sound, which catend from the urrethra to the hypogastic wound and which has two openings so arranged as to be at about the center of the prostate casts. It suffers to attroch the herd of the penis to this sound to obtain a continuous strigation which insures perfect

dramage Loumeau appreciates the method of local anxithesia for prostatectomy which Chevassu has pearsed and is disposed to employ it should there be occasion, in patients who are very ill it seems to be particularly indicated. But he wishes above all to insist upon two points presented in the commu nication by his colleague. In the first place he wishes to insist that it is very easy to tear the mucous mem brane which covers the enlarged prostate even with. or rather within the neck of the bladder, there the unger nail will largely suffice and there need be no recourse to instruments which are imagined to be required but which he considers quite unnecessary In the second place Loumeau would note that for ten years after performing prostatectomy, he has been in the habit of inserting a special self retaining sound in the ureter and at the same time inserting the hypogastric tube of Freyer. This sound was specially manufactured by Gentile is made of red caoutchour, perforated at the end, and with two lateral openings. It permits dependent drainage and very effective lavages of the bladder, it dimin ishes urinary inundation of nationts who have been operated by the suprapulae route, for the future it insures a more perfect caliber of the deep portions of the canal which is sometimes though rarely, rather difficult to catheterize after a prostatectomy.

Marion Tamponing in Subpuble Prostatectomy (Du tamponement dus la prostatectome suspublemne) 26th Cong de l'Ass fran d'Urol, Pans, Oct 9, 1912 By Journal de Chirurgie

I DUMONT.

Marion reports the results of tamponing which he has practiced in prostatectomies since April, 1910 He recognizes that there are certain disadvantages in tamponing, such as the desire to unnate which it provokes, the rise in temperature which it occasions from time to time, and the pains at its removal But these disadvantages are of no importance, and are largely compensated for by the advantages which the method affords One such advantages the absence of any form of venous kemorrhage at the moment of intervention, which makes the prostration of the patient infinitely less grave and leaves him in condition for better resistance in event of incontinence. Another advantage is that it is possible to leave the first diressing for trivee or of days without touching it. There is no risk of blood clots obstructing the tube

Marion describes the technique of this tamponment, and the results obtained in 8s operations in which he has employ of it. Among these he has had to record only five deaths two of which were due to embolism two to pyelonephritis and one to

uræmia

Michon, having learned of the good results which Marion had obtained, has also had recourse to pros tatic tamponment. In eight prostatectomies he has been able to demonstrate that bleeding becomes negligible and that there are no clots. He hads no serious disadvantages in tamponing—a the most a slight rise of temperature, the procedure is there ore a good on.

Wolf: Superior Advantages of Wilson's Modification of Naruth's Operation for Varicocele; Eight Cases. Deutsche med Wichnicht, 1012, xxvvn, Oct By Surg, Gynec & Obst

Variottle is not infrequently associated with disturbances preventing the proper discharge of military duties. Wolf finds that these disturbances are often most marked during the period of development of the varioties, while later the objective findings are quite frequently not in a direct ratio with the disturbances and complaints.

Simple excision of a few veins is not sufficient An operation should be done so that restoration of the lumen of the removed veins is impossible and that elevation of the testicle should improve the return circulation in the remaining veins Narath's operation considers these postulates It is per formed as follows Splitting of skin and aponeurosis of the external oblique muscle Double ligation and cutting of veins in inguinal canal as high up as Isolation and removal of distal veins Suture of internal oblique to Poupart's ligament according to Basson: The distal stump of veins is sutured to the muscles as high up as possible Closure of external oblique aponeurosis and skin Occasionally the venous stump is fastened to the periosteum of the os pubis or its fasoral attach

Wilson modified this operation by doing away with a second resection of the peripheral stump, by pulling it through a buttonhole in the internaoblique muscle 2 cm from its lower margin. The testis is pulled up until it can be palpated on the

anterior surface of the symphysis pubis. The venis are tied into a knot and this is lastened by a few sutures. The layers are closed after the method of Penon if necessary. The operation has the advantage that a simultaneously existing hermal see may be discovered and hgated (Narath found 5 hermas in 21 cases of varioccele). The somewhat voluminous senous knot is absorbed within three months after the operation.

Gayet Technique in Plastic Surgery of the Urethra After Urethrectomy (Procede de restauration de luvêtre après l'urétrectomy) 26th Cong de l'Assi franc d'Urol, Paris Oct, 1912 By Journal de Chrurgie

Certain persistent and recurring stenoses are associated with accidents, such as infiltration of unine or unnary absesses which leave exactness and fistule in their wake. Can we bring about the cure of these cases without very extensive resection? The author does not think so.

After these resections, numerous procedures may be employed in the plastic surgery of the canal Immediate suture with previous deviation of the unne is a beneficial operation when the loss of substance has not been too great. In cases where this loss had been very extensive, Gayet once employed a venous graft and once dermo epidermic graft, with cystostomy for deviation. In three two cases the graft took well. In two other cases which were citud worse Gayet constented himself with fraing the two ends to the skin, the a gun barrel, then insulate having previously drained behind the fistula. This method probably is the one which gives the most supplie and the most capacious canal.

To sum up we are to day well armed surgically against grave stenoses, but the indications of each procedure must be checked by a forecast of the probable remote results

Monie has had very good success in two cases of stricture, which he has treated with incision of the urethra and extirpation of the periurethral indura tions without suture of the urethra

The first was a case of stricture of the perineobulbar urethra He treated it with external urethros By two stitches of catgut, the periurethral tissues were loosely united over a sound, which was then withdrawn Drainage of the urine through the perincum was obtained by means of a self-retaining During the following night the patient tore away his dressings and the sound and the next day urinated through the incision. The sound was replaced and left for about ten days, after that he urinated through the incision - a veritable vulva and was treated with dilatation according to Béniqué's method On the twenty-first day the patient urinated through the penis After two and a half years, and without any further dilatation, the patient's urethra will admit a sound number B 52 The second case was a patient who was affected

with multiple strictures of the penial grethra, asso-

ciated with persurethral infiltrations and infiltrations of the corpus spongiosum, the urethra admitted a bougie No 12 Dilatation frequently caused bleeding and fever The patient had already been operated twice with internal urethrotomy, and the second time ran a temperature for three weeks. The author intervened for the purpose of free discharge of the urethra The urethra was incised into a veritable fibrous matrix of lardaceous tissue several points the diseased urethra had to be resected, the author then united the portions of the urethra which had thus been cut apart by a few stitches of catgut and loosely fastened the peri urethral tissue by two stitches of catgut. Flat dressings were secured by two stitches with horsehair inserted into the skin. For ten days the urine was drained through the perineum, after that dilatation could be commenced, but the urine passed through the wound for a long time. The plastic surgery was successful, without fistulæ Eighteen months later. without dilatation for eight months, the patient's urethra will admit an olive shaped bougie number Erection has been well conserved, and coitus is possible under normal conditions J DUMONT

Escat· Urethroperincal Plastic Surgery and Spontaneous Healing Without Stutre (De la reparation witto-pinnéale spontanée après les interventous sans suture) 26th Cong Pass fran d Urol, Pars, Oct, 1912 By Journal de Chrurge If plastic surgery of the urethra, by circular

urethrorthaphy after deviation of the urine is to be applicable the lesions must be limited. This procedure is of real advantage only when the lesions are obstinate and resist the simpler measures.

On the other hand, repair of the ruptured, per forated or constructed urethra can also be obtained by resection of the duct in continuity, without suturing the divided ends, and without leaving a sound in place for more than a few days. Plastic surgery by placing pedunculated flaps may also be accomplished with conservation of the cabber of the urethra

Certain conditions are indispensable for obtaining

In the traumatic ruptures of the urethra in which a small band of the superior wall has been preserved, an immediate wide uncision, the insertion of a sound for a number of days then plastic dislation according to the method of Beniqué and lavages with silver intrate will in most cases suffice to restore the supplieness and the caliber of the urethra within the course of three weeks

In structures with persureflaritis, the discharge of the urethra must be completely drekted and all chronic foct and selerotic masses must be removed if necessary, the corpus spongosum should be resected, the penneum divided as far as the prosatic and the transverse muscled on the property of the prop

be left at the most from eight to ten days, the time which is required for the wound to heal. The less of skin is replaced by plastic work and, after the stitches have been placed, by passive movement at the top and at the base of the scrotum. Then peducuculated flaps are placed, and followed by dilatation according to the method of Bénqué and lavares with silver intrate.

If this method should leave a fistula or an incurable ring, it nevertheless remains the best preparation for a resection or a delayed autoplasty, to be employed in case the two ends are separated as a result of traumatism or necrosis. The treatment in two stages constitutes the most rational procedure. Despoys

Legueu and Berne-Lagarde Criticism of Experimental Polyuria (Critique de la polyurie expéri mentale) J d Urol , 1912, n, 461 By Journal de Chruspe

Among the various methods of investigating the function of the kidney, the test of experimental polyuria which has been demonstrated by Albarran has become classical. It is based upon two laws of general pathology established by Guyon and Albarran, which are the following

1 The diseased kidney has a more constant function than the healthy kidney, and its function varies less from moment to moment the more its

parenchyma is destroyed

2 When of two Lidneys only one is diseased, or

more diseased than the other, it modifies its function less than the other when the urinary function begans to be disturbed, the difference between the two glands becomes exaggerated chiefly through the variations in the functioning of the healthy kidney 3. In practice, the absorption of a certain

quantity of water will render mainfest the functional difference which causts between the diseased and the healthy kidney, a difference which without this test would probably not be noticeable. Aqueous polyura begas immediately after the ingestation of the water, reaches its maximum in the second ball-hour after the ingestion and dimmakes in the hird. The quantity of unner given off by the control of the property of the proper

off a total yield of urea which is greater than that which is yielded by its congener. The elimination of urea is satisfactory when it reaches, in the adult and for a single kidney, from 1 gm in 20 to 1 gm. Bo during the two hours which the experiment lists, it is medium if it is reduced to 0 gm in 75 or 1 gm in 85, and poor it below this figure.

The objection has been made to experimental polyura that there is a possibility of there being at times a considerable polyura due to catheterization (Clairmont, Kapraumer), and the further possibility of filtration of urine between the walls of the ureter

and the catheter (Kunetzky), so that many have abandoned it

To prove its real value Legueu and Berne-Lagarde have made a whole series of tests upon 13 different patients who had previously undergone undiateral nephrectomy, thereby avoiding the excitative effect of the urreteral sound and its obstructive and arresting influence.

The results comprise 4 marked polyunas and o in which polyuria was not marked. Out of these litter two had never been marked under any tests, four were variable, sometimes good sometimes bad in the same subjects though no cause could be

found for this variation

The authors conclude from these facts that the climation provided is in great measure independent of the renal filter and that we must consider the important role played by the diagestics tract, the liver and the nervous system. Gastine dilatation and atony portal hypertresson, defective curular disturbance of the nervous system, are extracted disturbance of the nervous system, are extracted factors which modify a test for polyura even in kulneys which by themselves would function normally.

The following practical conclusion develops from this When in a patient who is about to be subjected to nephrectomy a favorable polyuma is provoked from the health kidney, we may assume almost with certaints functional integrits of this kidney, and undertack the operation. But when the test is not favorable we are not justified an depending exclusively upon the evidence of the in sufficiency of polyums for accepting insufficiency of this kidney, and one rejecting nephrectomy.

J TANTON

Stanton. The Diagnosis of Diseases of the Urinary Tract by the Combined Use of the Cystoscope and the X-Ray J Leel, 1912, viii 111 By Surg., Gynec & Obst

Stanton believes that the data obtained by the cytoscope, the untereal catheter and the X-ray, is so positive in character that the question of a diagnosis by these methods is in many respects not while a problem in mathematics or quantitative unlike a problem in mathematics or quantitative mathematics and the second of the control of an expect of the control of the control of be correct, but if any error be made the results are almost certain to be wrong

It is only when the X ray, the cystoscope and the unteral catheter are used in combination that an accurate diagnosis becomes possible in practically all cases, and the problem of diagnosis this becomes largely one of combining the several diagnostic procedures in such a manner that the shortcomings of one will be supplemented by the positive findings of the other.

In order to obtain the best results the cystoscopist and radiographer must work together and their combined technique should be so planned as to meet the following requirements

The examination must be practically prinless and must not be unduly prolonged

2 The completed examination must give an orderly collection of accurate data which together will constitute all of the facts necessary for an accurate disgnosis

action to uniqueness
3. The various steps of the examination must be
so planned that one step does not interfere with
another, else repeated examinations will be necessaft), and private patients will not willingly submit

to repeated examinations

4. Any plan adopted must be capable of modification to suit individual cases without breaking the

technique as a whole

The problem which the writer has attempted to solve has been that of selecting the most useful procedures and combining them in such a way as to meet the above requirements. I special emphasis is placed on the value of py-lography as a check to the data obtained from the ordinary. A ray prite work, the majority of the examinations including the X ray, work, can be completed within thirty minutes with no more inconvenience to the pritem than is commonly, caused by the pissing of a sound

Marion: In There a Vesical Prostatism — Prostatitis Without Prostate? (Existe 1 di un prostatisme visical des prostatiques sans prostates?) J d Urol, 1912, ii 497 By Journal de Chirurgie

It has long since been admitted that besides the complete or incomplete retentions manifestly prooked by an increase in the volume of the prostite there exist similar retentions not caused by any obstacle and provoked by vesical insufficiency, this is the so-alled resical prostatism of cuyon

At the Congress of Urology in 1007, Desnos found that out of 200 cases of prostatitis 220 patients had tumerous prostates, while in 76 cases it was impossible to notice any increase in the volume of the prostate through the rectum, and yet these 76 patients all presented retention, while among the 220 one half hid no retention

Now, Moty and Arrese have shown, histologically, that the number of muscular fibers is by no means decreased in the veins of prostatitic patients without a prostate, and that the vesical atony of these patients is not occasioned by the poor state of the

muscular tissues

Marion likewise casts doubt upon the real existence of any prostatitis without prostate I mail the cases which he has observed, he has always been able to demonstrate that when the trouble began there always was something besides primary manfinency of the musculatur. of the bladder, and very often he has been able to restore micturition by the appropriate intervention

Under this category of prostatitic patients without prostate must be classed patients affected with a

variety of affections

First, patients with urmary defects, that is those who have suffered a lesion of the nervous system, which so far has not become manifest except through disturbances in micturition—tabes, particularly if it begins in the bladder

Into this group belong also the cases of vesical paralysis of reflex origin, which are provoked by

renal suppurations

To the First International Congress of Urology, Marion communicated a case of complicated grippe pyelonephritis in a woman who had presented complete retention of urine but in whom the retention passed away gradually as soon as the pyelonephritis became better

Second, prostatute patients with a prostate, but in whom the hypertrophy is slight and quite essentially vesical and eccapes ordinary examination. Some adenomata of a few grammes in weight may also cause complete retention and micturition is reestablished when they have been removed.

These hypertrophies cannot be diagnosed except by cystoscopy. This enables us to find either one of two conditions. This enables us to find either one of two conditions cheep there is a clear malitormation of the neck posterorly, depending upon the custeence of a median lobe, or it may be shown that the neck and the urethral ordines can be seen at the same time, a condition which is produced by elevations of the condition which is produced by elevations.

A median lobe sufficiently movable to close over the orifice of the vesical neck, mechanically brings about an early and complete retention. On the other hand, in the cases of intrasphinetral adenoma ta, which are too small to obstruct the upeths or the vesical neck, we probably have to deal with phenom ena of vesical inhibition which are provoked by lessons of the neck or of the posterior urethra

Third patients who are affected with resud or surfaced leasons. The author presents, in particular, the case of a patient who shoned symptons of vesical prostatism. When the piece, which had ben removed by a blation of the vesical neck and the posterior urethra was examined it was found that a panilloma in a state of degeneration adhered to the posterior urethra. Contractility of the bladder became normal again after the interven-

In brief the diagnosis of vesical prostation must not be made except after very minute examination of the patient, in the cases in which the examination has failed to reveal any lesson it must not even then be made until after failure of an intervention

When we have a prostatute patient without prostate intervention in the form of suprapube cystostomy is always indicated for it is calculated to re-catabils mitturnion. It also enables us treat the lessons which have escaped detection in the treat the lessons which have escaped detection in the formal it enables one is suppose the visit of the formal it enables one is suppose the vestal net, this operation being advisable where nothing elswill explain the symptoms of prostatism.

I TANTON

SURGERY OF THE EYE AND EAR

Cohn: Technique of Operation for Diseases of the Lachry mai Ducts (Zur Operationstechnik bei Erkrankungen der Traenenwege) Arch f Laryngol # Rhinol, 1912, XXV, 513

By Surg , Gynec & Obst

An endonasal method for the removal of obstructions in the nasolachrymal duct, founded upon experiments on cadavers, is proposed by the author The plan is the following With a circular incision parallel to the anterior border of the median concha, I cm in front of it and ending at the end of the first third of the inferior concha, the mucosa is cut and pushed back together with the periosteum special instrument with a blunt end, curved 4 mm to the side is then pushed backwards along the hard bone of the frontal process until it breaks through the thin lachrymal bone, the curved end of the instrument being too short to injure the opposite wall, which looks toward the maxillary sinus Then a similar instrument, with a curved end of 7 mm length and a sharp edge, is introduced through the lachrymal bone and the cutaneous canal cut Into the thus opened canal a special constructed forceps (Stanze) is introduced to remove the obstructing parts, cutting only the processus frontalis and parts of the cutaneous canal contained in it

Coover- A Résumé of Present Operative Treatment, for Trachoma, with Description of the Author's Method of Grattage with Strips of Sterilized Sand Paper. Ophikal, 1912, 18, 28 By Surg Gyne & Obst

Coover gives a review of the present operative treatment of trachoms and recommends his method of grattage with sterdized sand paper. He uses No or No so sand paper, sterdized by dipping it in alcohol and then burning it off. The full is everted with Darrier forceps. A horis spatula is used to protect the cornea, the sand paper is rolled over the material forces.

index finger, and the entire lid surface is thoroughly tubbed, a general anasthetic being used Dr D W White and Dr George Philips reported 200 cases in the United States Indian service treated

by this method with good results

C. G. DARLING

Wood: The Surgical Treatment of Trachoma. Chicago Med Record , 1912, xxxiv, 507

By Surg, Gymc & Obst.

In this article the author discusses (1) the surgical measures used in the routine treatment of trachoma, (2) the surgical removal of the diseased tissues, and (3) the operative procedures in the treatment of pannus. Under the first group he takes up cauteriation of the diseased follicles as a whole or individ-

urlly, noting their value but wrining against the danger of too deep scarring if thoroughly done Llectrolysis, either after scarification, with a zinc electrode, or by plunging the electrode into the individual granules, is mentioned and discussed,

X ray cures rapidly with the least deformity of the lid, is painless and the pannus clears up very

rapidly Similarly, radium is of value

The ordinary surgical procedures do not insure against relapse, because the seat of predilection for the trachoma follules is in the upper forms, hence the difficulty to reach by surgical attack. To meet this the removal of the trachomatious tissue has been advocated and practiced with good results

The author believes this procedure to be contraindicated (4) in recent or acute forms of traching (a) in cases where there is reasonable prospect of early care from any other form of treatment, (a) in the most advanced stage of the disease in those cutarical forms that base gone on to shranking the cutarical forms that base gone on to shranking of the sac, and in which there are probably few or no active trichomatous nodules, (i) in cases in which it is possible to remove, one by one, the discrete and scattered trachom nodules from the targist stage.

The operation is indicated (1) in long standing cases of trachment not amenable to other forms of treatment in which the lids show trachomatous militrations with granulation deposits in the conservation of the standard control of the standard con

He then discusses the muscular supply of the lods, and describes the operation, which consists in (t) incision at the bulbar margin of the discased lissue in the retrotarial fold, transverse through the mucosa, with three sitiches of three days gut passed through the bulbar margin, (c) second incision the length of and parallel to the lid edge as nearly as possible in the healthy conjunctiva. (z) excision of the conjunctiva and the tartus down to the muscle, (4) careful approximation of the two margins. He then discusses and meets the objections to this operation

Lastly, he discusses the removal of a strip of conjunctiva and submucosa surrounding the cornea as a cure for pannus, the cautery of the corneal vessels at the limbus after curettage of the surrounding epischeral tissue, and the formation of a subcon-

junctival blood clot around the cornea by the puncture of a vessel through a very small incision. All these methods have been used with good results. E. B. Fowige.

Weidler. keratitis Neuroparalytica After Removal of the Gasserian Ganglion. N Y St J Med., 1912, m., 558 By Surg., Gynec & Obst

Weidler reports two cases of neuroparal, tie keratitis following removal of the Gasserian ganglion, one

case in which the eye was enucleated

He says that it is the consensus of opinion of Cushing, Dearer, Horsley, keen, and Frazier, that the removal of the Gasserian ganglion is extremely dangerous, with a mortality rate from 5 to 50 per cent, destructive neuroparalytic keratitis following many of the cases

Over 300 cases of alcohol unectuous are collected in this paper with only one senious keratics, whereas in the 70 cases of gasserectomy, Leratitis followed in a considerable number and in four cases enucleation was done. He advises that 'alcohol injection' treatment should be advised in all cases of doulou-reux, not only as the first form but in nearly all as the only treatment.

Tinker. The Surgical Treatment of Exophthalmos. J Am M 4ss, 1912, lix, 989 By Surg, Gynec & Obst

While various procedures are mentioned in the treatment of exophthalmos from differing causes, this namer chiefly concerns osteoplastic resection of the outer wall of the orbit In the treatment of obstinate and extreme protrusion in exophthalmic gottre, and also for orbital tumors, this operation has perhaps not been as commonly practiced as it deserves to be The operation may be indicated for the relief of very disfiguring deformity, extreme pain or because of injury to the eye from exposure and The original Krönlein ulceration of the cornea incision leaves a larger visible scar than is necessary and is likely to shatter the fragile bones of the wall of the orbit and injure certain filaments of the facial nerve, making facial paralysis a frequent result

An incision is proposed based on study of the anatomy of this region which avoids these disadvan Cuts are given showing distribution of the facial nerve, and a triangle of safety for the facial nerve, in which the incision may be placed Twentyfive dissections plotted on the outline record chart of the Anatomic Laboratory of Cornell University Medical College, at Ithaca, were studied and verified in plotting this triangle. The use of a drill and a Gigli saw are suggested to avoid shattering the bone in making the osteoplastic flap. There seems no apparent reason why the operation should endanger life or the function of the eye if properly performed Removal of serious danger to vision, rehel of severe pain in certain cases, and correction of a very disfiguring deformity, makes the osteoplastic resection of the outer wall of the orbit a most satisfactory operation to patient and surgeon in appropriate cases A very satisfactory result is reported fourteen months after operation on a patient who had had a previous thy roudectomy for exophichalme, goint, but whose exophithalmos persisted as a result of a harmangioma situated on the posterior surface of the eyeball and along the optic nerve

Ruttin. The Pathology of Labyrinthitis Ans Otel, Rhinel & Laryngel, 1912, 221, 714 By Surg, Gynec & Obst.

The author takes up the indications for operative treatment in diseases of the labyrinth in seeking for the underlying principles

He is guided by the fundamentals never to de stroy a still functionating labyrinth, and on the other hand to drain any location where there is pus He classifies the condition according to the

He Classifies the condition according to the clinical picture into (1) circumscribed labyranthis (2) diffuse scrous secondary labyrinthitis, (3) diffuse serous induced labyrinthitis, (4) diffuse suppurative manifest labyrinthitis and (5) diffuse suppurative latent labyrinthitis

In the suppurative forms function is destroyed He gives the indications for opening the diseased labyrinth as follows Every suppurative laby rinthitis (diagnosed on a complete loss of function) should be operated both in the manifest and in the latent forms The radical mastoid operation is done in the first three types, the circumscribed and the two serous forms, because the labyrinth is not entirely destroyed and its function is partially retained The partial impairment of function need not be lasting, and the serous types often heal very readily when the focus of infection is removed Brain complications rarely occur without the dis ease going through the suppurative stage, at which time the indications for drainage of the labyrinth will still be timely C V FOWLER

Wood The Alter Treatment of Mastoid Operations Ann Otol, Rhinol & Laryntol, 1912, III, 627 By Surg, Gynec. & Obst.

The author gives a detailed account of the recognized methods of treatment, both operative and after treatment, at such length that only the briefest outline of the article can be given here

He says that any mastod operation is but the commencement of a course of treatment, the aim of which is the arrest of discharge with the preservation of life and hearing. In all stages the greatest care should be evercised to obtain aspectic conditions

He then gives in detail with after treatment wilde's incision, cortical mastoid (of Schwatz), the "Heath conservative mastoid operation," in which the stutches are removed the following day, although the tube is retained until the discharge has exceed. The court is finded daily by the present of the student of the student of the student will be a seen as the student of the stude

The author then discusses the after effects of this form of treatment, especially tinnitis and adhesions in tympanum and their prevention, and also permanent perforation and continuance of the discharge C. V. Fowler

Lewis: Cellular Changes During and After Acute Mastolditis with a Consideration of the Inadvisability of Certain Operative Procedures J Am M Ass., lst, 1142 By Surg., Gynec & Obst

This paper deals only with general principles underlying the surgery of acute purulent mastoiditis Lewis' propositions are the following In operative treatment of acute purulent inflammation of tympanomastoid structures, any procedure having for its object aught else than relief of pressure and adequate drainage is a surgical error, the muco periosteum is a very important lymphatic organ of great absorptive and recuperative powers, and should be accorded the utmost conservative surgical handling, the antrum should be opened when indicated but its mucoperiosteum should not be destroyed by curetting or other destructive procedure, free drainage of tympanum aditus, and antrum by means of a large incision in the drumhead kept open by re meision as often as necessary, should be regarded as a surgical indication of first rank

Anatomically three types of mastoid process are encountered, nondiploteix, ed oper cent mixed pneumatic and diploteix, 38 per cent, and wholly diploteix, 29 per cent. In all mastoids, irrespective of type, diplote is absent from at least three sites the promatorium, the inner entirely wall, and the the promatorium, the inner entirely wall, and the in the mastoid is solely dependent upon the muse personsteum for mourishment and for serum and

cytic protectives

The details of pathologic changes during acute purulent mastorditis are considered with the foregoing in view tracing development of emprema antri, mastoid abscess proper and acute osteomyelitis; also such developments as Bezold's perforating abscess, epimastoid, epidural and perisinous abscess. Attention is specially called to the common fallacy of mistaking intensely inflamed but viable mucoperiosteum for "granular detritus," and its consequent destruction by the curette. The most important protection to the individual during acute purulent mastoiditis comes from rupture of the membrana tympani and the formation of organized exudate surrounding the infected areas Large incision of the drumhead should be made early, and continuation of this drainage maintained all through the disease Empyema antri needs no further surgical treatment Early free opening of the mastoid process and establishing thorough drainage is indicated additionally in cases of abscess and acute osteomy elitis Complete exenteration, as very widely advocated and practiced today, is not only unnecessary, but by destroying Nature's safeguards, the organized circuminflammatory exudates increases liability to internal ear and intracranial

complications, and renders healing as protracted and difficult as possible. And after complete healing the much enlarged antrom is lined with a cicatricial basement membrane covered with flat epithelium, in place of the mucoperiosteum, and remains a step-off cavity peculiarly defenseless in the presence of subsequent infection. Lewis believes that the percentage of intracranial and internal ear complications is higher in and about the centers where mastoid exenteration is practiced upon acute purulent mastoidus solely because of the violation of fundamental surgical principles.

Ballance Epithelial Grafting as a Means of Effecting the Sure and Rapid Healing of the Cavity Left by the Complete Mastold Operation Ann Otol., Rhinol & Laryngol., 1912, 211, 398 By Surg., Gynec & Obst

Two conditions are necessary for the success of the operation for cure of chronic otorrhoa Tirst, all disease must be removed, second the large bone wound must be made to heal from the bottom The first condition can be carried out with certainty in the large majority of cases The second condition, however, is often more difficult to effect, and it is often only after many weeks or even months that the large cavity will finally be healed, and in a certain number of cases a permanent discharging sinus is left. The reason for this slow healing is that the denuded bone which forms the base of the cavity left after a complete mastoid operation is very slow in forming granulation tissue Furthermore, the operation wound is not flat, and if exuberant granulations are allowed to grow they may shut off deep pockets which favors the formation of a persistent discharging sinus

The advantages gained by grafting the mastend cavity are (1) rapid healing of the entire bone, cartilage and soft parts on ordinary surgical principles, (a) immediate protection of the raw bone, and the lessoning of the pain from subsequent dressing the pain from subsequent dressing the part of the bone. Furthermore, facility of residencies of the bone Furthermore, facility of residencies, and the contraction of the bone from time that skilled attention is necessary, and also an improvement in the hearing over the old result

when grafting is not used The technique of the grafting is very similar to

its application elsewhere. The complete massion operation is done, and the grafting done immediately of at a latter date. The grafts are obtained from the high in very thin strips. They are carried by a section lifter and carefully applied to (1) the anterior wall of the cavity formed by the anterior boundary of the tympanum and attire, (2) the anterior part of the roof of the cavity formed by the tegmen tympani and the superior wall of the entared operations meature, (3) the interior walls of the attire and tympanum, (4) the trigmen antiri, (5) the tuberosity formed by the horizontal semicircular canal and the Fallopian canal, and (6) the inner wall of the antirum.

SURGERY OF NOSE, THROAT, AND MOUTH

Hirsch: The Operative Treatment of Tumors of the Hypophysis with Endonasai Methods (Duoperative Behandlung von Hypophysentumoren nach endonasalen Methoden) Arch f Laryngol u Rhinol. 1017, 1211, 531 By Surg, Gynec, & Obst

The author gives the detailed histories of 26 cases of tumors of the hypophysis in which he performed endonasal operations. This is done either by the ethmoidal method, which is performed in from three to four sittings, or by the septal method. In the first sitting the median concha of one side is removed After some days the posterior and also part of the anterior ethmoidal cells on the same side are removed, baring the anterior wall of the sphenoidal sinus which is resected some days later, and in the fourth sitting the sella is opened. By the septal method, access to the sphenoidal sinuses and to the tumor is gained by submucous resection of the septum, both sphenoidal sinuses are opened from the median line. This operation is preferable, as it may be done in one sitting in case the fissura olfactoria is wide, and as there is less danger of infection because the removal of the mucosa on both sides of the septum creates a median cavity

separate from the masal cavity Of the 26 operations three ended fatally, or 11 5 per cent, which is rather favorable in comparison to the results of Schlöser's method, with 37 8 per cent mortality (45 operations), and of von Liselsberg's method, with 28 5 per cent (14 opera tions) Of 32 operations with Kanavel's method and that of Halsted and Cushing, 6 ended fatally, or 13 7 per cent Of the author's three fatal cases, one died 20 days after operation from meningitis. the patient was much demented and had pulled out the tampon himself. The second died 8 days after operation from pneumonia, the third death occurred directly as a result of the operation from hamorrhage into the tumor Three operations had no effect (degeneratio adiposogenitalis, with marked disturbance of vision, acromegaly, and the third with disturbed vision of 12 years' standing) Here the tumors had grown not only toward the sella, but also toward the base of the skull The optic nerves could not recover as a result of the long standing condition

In five cases the improvement was only temporary (z to 6 months), in two of them the tumor was not removed, and in one there was an intracranial chondroma. The remaining it cases were markedly improved, though in some the vision had been marked in the contract of the co

patients recovered her regular menses after the operation

From the operative standpoint we must differ entiate three groups of tumors (1) Chiefly intra cranial solid tumors with high grade disturbance of vision and marked involvement of the sella (13 of author's cases) The removal of the bottom of the sella and part of the tumor is sufficient in the majority of the cases to effect a marked improvement of the local pressure symptoms, and often also of some of the general symptoms (2) Intrasellar solid tumors These cause no disturbance of vision. in the radiogram they show an enlarged sella with no widening of its entrance and offer very favorable chances, as they can be reached in their entire extent (2 cases of author) These intrasellar tumors can only be diagnosed when they cause general symptoms, above all, acromegaly, otherwise only an X ray may lead to their discovery (3) Cystic Diagnosis can only be made by operation They offer very favorable chances, as the opening and partial removal of the wall of the cyst is suffitient to relieve the pressure symptoms, the size of the tumor plays no part in the recovery

Operation is indicated in every case with disturbed vision, no matter whether we deal with an intercanal or intrasellar tumor. Acromegalic deformation without visual disturbance is in itself not sufficient indication for an operation, though the acromegalic symptoms partly disappeared after operation, and it must be considered that on account of their intrasellar location they offer favorable changes.

Freer: The Submucous Resection of the Nasai Septum J Am M Ass 1912, hx, 1127 By Surg, Gynec & Obst.

This article is the last of eleven written by Free on this subject since you. Each of these papers has marked an advance in the perfection of the method, which has progressed from crude beginnings to a procedure which permits the removal of the most difficult deflections with mathematical certainty, with no injury to the patient, the least traumatism, and with little or no pain under local anaxibesis.

The description of the operation is preceded by an explanation of anatomy of deflections as Free has found it The important crossing of the periods of the periods of the periods articulation, first described by Free (Jour Of) this old lost Jay 1, 1907, is clearly set forth, with the reasons why it makes the dull denudation most climb tooks an amount of the period of the period

Except in younger children, local anæsthesia, produced by massaging the mucosa with a mud of cocaine flake crystals and adrenalin, is used The operation is performed with the patient lying on an operating thur \ mucous flip, turned forward, is made to give a wide entrance to the operative field and to protect what Freer calls the dorsal or supporting strip of cartilage left under the nasal bridge I reer refers to the sunken nasal bridges which have followed the prevalent method of per forming the submucous resection through an an terior incision with excision of a niece of cartiling with the swivel knife, an implement which is not only used without the aid of eight but is incapable of accurate guidance, so that it is liable to cut close to the under surface of the masal bridge anterior incision leaves the cut cartilage unprotected in the wound so that it is liable to soften and become absorbed In distinction from this the Freer flap permits the accurate making of the dorsal incision with the aid of sight and at the exact distance from the nasal bridge desired by the oper ator In addition, the flan thoroughly blankets the dorsal strip so protecting it from absorption

Free objects to the detail of the submucous receition to children so frequently made a denail which deprives them of the benefit of free based breathing during their growth. I reer has never seen anything but the best results from his operations upon one hundred children and attributes the difficults experienced by others to the employment unable to come with anything but sumple cased its unable to come with anything but sumple cased.

The resection of the bony deflection is exercially described, and must be read in the original. Nine teen excellent illustrations accompany the article W. G. REIDIE

Borchers I nucleation of the Tonsils with the Finger. Munchen mal II chnicht, 1912, bit, Oct By Surg, Gynec & Obst

Borchers uses ethyl chloride as anasthetic, with the drop method He operates during the analgetic stage, which is reached within two minutes reflexes should be present to avoid aspiration of the blood. The head is slightly elevated and somewhat to the side. The anterior pillar is detached by a curved elevator If adhesions are present, curved scissors and forceps are necessary. After detachment of the anterior pillar, the enucleation of the tonsil from its bed is performed by the index finger This is done by stripping in an upward and downward direction A few seconds, as a rule, suffice to finish the procedure, so that the tonsil is held by a thin pedicle passing in the direction of the base of the tongue This pedicle may be torn off in children. in adults detachment by scissors is advisable operation can be done by touch alone, eve control is not necessary The patient is allowed to come to and rinse his mouth before the second tonsil is removed

The author cites as advantages of this method, its simplicity, short duration, the slight hamorrhage, and impossibility of injury of either anterior pillar or carotid artery if abnormal in its course. Very

small tonsils, especially very soft ones and those which are closely adherent, should not be removed in this manner E. C. Riebel.

I erinstein: A New Pathologic Tonsil of the Human Pharyan (Ueber eine neue "pathologische Tonsille" des menschlehen Schundes, die "Tonsille linguz lateralis" und ihre I rkrinkung an Augina) Arch f Laringol u Rhind, 1917, xxx1, 637. By Surg. Gynee & Olst

Learnstein describes a case of anging of a nathologic tonal on the tongue of a 20 year-old male laborer He denominates this disease which he says is unique in medical literature as "angina habitualis tonsillar lineur lateralis" in differentiation from the angina of the ordinary lingual tonsil, which should be called "angina tonsilly lingue medialis" or "angina tonully radicis lingur" The case is of clinical interest because it represents an acute inflammation of a tonsil which does not exist in the normal and which was probably produced by acute or chronic printation of the mucosa, which caused the angioma of the new tonsil Anatomically it is of interest because it proves that pathologic irritation of the mucosa in the human pharanx may produce new organs which can neither macroscopically nor microsconically be differentiated in their structures from the normal tonsils The exact location of the described new formation is bilate rally at the posterior border of the toneue in front and laterally of the plica triangularis and the anterior palatine arch

Albrecht: Hot Air Treatment in Laryngology.

(Heissduftbehandlung in der Laryngologie). Arch f

Laryngol u Rhinol (012 xxvi, 50)

By burg , Gynec & Obst

Lor producing active arterial hyperemia for the treatment of diseases of the lary nx with hot air, the author had a box of ashestos wood constructed with such excisions as to fit over the upper part of the chest the neck the chin and shoulders as the parts to be exposed to heat. To make this cover more tightly fitting, asbestos is stuffed into the gans and thus a closed room is created over the parts to be treated The cover or box has a ventilation hole on top and into the side a sheet from tube is inserted which has a funnel bending down at its end A gas jet is fixed to a holder in such way that it can be lowered or raised to regulate the heat. It should never be placed under the funnel before being lighted, else gas will escape into the funnel and the box when the jet is opened, and seriously burn the patient when it is lit. The patient is in a lying position, the exposure is one half to three quarters of an hour, to an intensity of heat of 100° to 110° C This heat produces mostly an agreeable sensation in the throat, and the treatment can be repeated daily without injury to the skin of the patient.

Good results are promised (t) in acute laryngitis, (2) in subacute and chronic laryngitis, especially laryngitis sicca, if the disease is not of too long standing and the symptoms not too advanced and severe, (3) in acute and chronic ordernata of the laryin, especially of the tuberculous type (here the good results are due to the resorbing character of the hyperamia), (4) stenosed scars of the laryin may be favorably influenced by the treatment, and, though author had one good result, he does not yet recommend it as reliable

can interest and action without on a case treated with this method. Here were of very severe sente largagits, one of which was markedly improved by the treatment but did not continue, the two others continued until cured. Of the eases of largagits succe, the treatment had to be stopped in three cases of long standing and complicated with phary parts succeas and ozens. In two cases there was a marked improvement and in whe the cure was a marked improvement and in which the control and the c

Lautenschlaeger: Double Vocal Cords (Lin I all von Doppelbiddung der Stimmbänder) Arch f Laryngol u Rhinol , 1913, xxvi, 700 By Surg , Gynec & Obst

A twenty-year-old patient came to clinic for a submucous operation of the septum and when examined it was found that he had double vocal cords bilaterally During phonation the vocal cords could be seen, slightly reddened, somewhat thickened, closing well, and casily movable. During aspiration however, below the level of the normal cords a second cord could be seen on either side They were snows white shining like tendons, extending from the anterior commissure to the vocal process, they were about one third thicker than the upper cords hang about 1 mm deeper than these and separated from them by a groove When the upper layer was in motion the two lower cords participated in the movements but they could not be seen during phonation because they were hidden below the upper contracted cords The closure of the glottis scemed good, but the voice was somewhat hourse probably because the upper cords had less tendon layers than the snowwhite lower ones and were softer The findings were the same on both sides. The double formation seemed to be congenital. The patient had never been seriously ill, and only hourse from infancy on Croupous ulcers, tuberculosis and lues are excluded in this case as cause of the twin formation. The author proposes to fill the gap between the cords with paraffin and thus to form one thicker cord on either side.

Campbell: The Treatment of Cleft Palate. Am Medicine, 1912, 2010, 545 By Surg Gynec & Obst

Campbell urges that there should be some definite standard of treatment upon which the profession is agreed, and deprecates the old traditional dictum of operating on harelip at the third month and cleft palate at the lithir year as physiologically irrational and surgically unnecessary.

The old dictum of delay has nothing to commend it It is fall actous in premise and conclusion, for it is obvious that cleft palate is a serious menace to the nutrition of the infant, since it is impossible for the child to suckle or satisfactorily swallow the food introduced into the mouth Later, articulation and phonation are seriously compromised, the defective nasopharyngeal wall permits the air current to escape through the nose and makes the distinct articulation of consonants impossible. The tools of speech must be normal in order to have correct speech Not only this, but unless the mouth and nasal cavities are separated early in life, normal physiological function is impossible hence normal development is seriously compromised. Vital capacity is impaired, the physiognomy is altered, and the individual is physically and intellectually a defective. It is certain that if the normal development of the nasopharynx and the surrounding structures depends upon its normal physiology, the nose and mouth cavities should be separated as early as possible The child cannot develop so long as its supply of air and food is deficient. The proper time to operate for cleft palate is as soon after birth as possible, nothing is gained by delay except the consequences of faulty nutrition. The plasticity of the newborn tissues their capacity for repair the trifling hymorrhage, the slight risk of life, the possibility of obtaining a broad, well vascularized flap before the teeth have begun to encroach upon the mucous membrane combine to make early infancy an opportune time for repairing the defect

The author has no hesitation in commending the "Lane operation" as the most satisfactory tor all varieties of cleft providing the operation is done early. It is ingenious rational and satisfactory, and far superior to the older plastic methods

The principle of the operation is to close in the interval between the edges of the cloft by muco periosteum in the case of the hard palate and by mucous membrane and submicous tissue in case of the soft palate. The fratures of the operation are the breadth of the flags and the ingenious method of overlapping them so that the fissure is closed in by a curtain of itsue on which there as no tension by a curtain of itsue on which there as no tension. If harding easits, the direct is repaired at the same time as the cleft valate.

One of the greatest difficulties which the author encountered was to get the child in a stable power of the control for operating, this was satisfactoril) solved by Miss Gothon, superintendent of Trimity Hospital when the product of the control o

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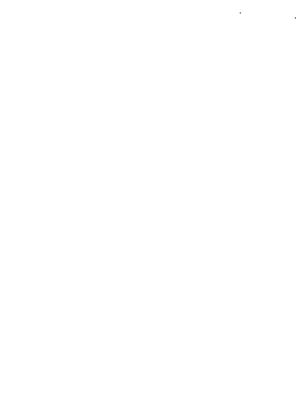


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THE PLAN AND SCOPE OF THE NEW INTER-NATIONAL ABSTRACT OF SURGERY

The have entered into agreements with the editors and publishers of two new publications which have been authorized by the Germann Surgerol and German Gynecological Congresses, and Zentralibalt fur the gesamle Chrurgie sund thre Grenzgebete, and Zentralibalt fur the gesamle Chrurgie sund thre Grenzgebete, and Zentralibalt fur the gesamle Gyndkologie und Geburtshift sour deren Grenzgebete, and also with the editors and publishers of the Journal de Chirurgie, for the purpose of establishing an International Abstract of Surgery, to be issued as a supplementary publication to Surgery, Consecution AND OBSTITIES.

FIRSLA REQIFICAL CONTRACT between SURGERS, GANTCOLORS AND OBSETEnices and the Journal de Chrungue, the leading abstract journal of France, which now abstracts and indexes in French the surgical literature of all countries. I from this journal we are to receive abstracts of the surgical literature from the Latin countries.

Second, a similar agreement with the two Germ in publications named above, one of which covers the field of general surgery and the other gynecology and obstetrics, from which sources we are to receive abstracts of the surgical literature of Germany and other countries

Third, the organization of a representative editional staff on the part of SUNGERS, GINFOCTOGY AND ORSCERRICS, supplementing the present editorial staff, to prepare abstracts and indexes of \text{mencan} and Lnglish surgical literature and to translate and edit the material furni-hed by our foruge contemporaries

This plan not only insures comprehensiveness, but with three strong editional staffs representing the different linguages and able to speak authoritatively, concerning the contributions and their contributions, it provides a journal which for accuracy and authoritativeness must be superior to any that might be brought forth by one editional staff attempting to cover all countries and languages.

The journal in its completeness will powers the following scope

- 1 A comprehensive index of surgical literature from all sources, arranged anatomically under departments, giving the author's name, subject of communication, and the name and date of the journal in which the article appeared
- 2 An abstract of the surgical literature of all countries, prepared by the combined efforts of our French and German contemporaries, and our own staff for America and the British Empire This will include abstract and reviews of (a) original articles, (b) monographs (c) books, and (d) clinics

INTERNATIONAL ABSTRACT OF SURGERY

MARCH, 1913

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY

SURGICAL TECHNIQUE

ANASTHETICS

Laerger rger Direct Anæsthesia of the Smaller Subcutaneous Veins in Operations on the Hands and Feet (Ueber die Anwendung der directen Venenanasthesie bei den kleineren subkutanen Venen zu Operationen an der Hand und am Fuss) Arch f klin Chir 1912, 2013 983

By Surg , Gynec & Obst

One hundred and fifty operations on the hands and feet were performed at the University Surgical Chnic and Policlinic in Berlin (Dr Bier) under direct anasthesia of the smaller veins syringe with a curved nozzle and needles 34 to 134 mm in diameter is necessary, using novocain solu tion as the anæsthetic The hand or foot is held high and an elastic bandage applied in spica turns in such a manner as to eliminate the parts for opera tion Novocain is then injected under the skin and near the vein, making a wheal over the latter The skin is then incised for 1/2 to 1 cm and the vein lifted with Dechamp's needle and a silk thread The vem is tied at its proximal end, and another ligature is placed under the distal end but not tied needle is inserted in the distal end of the vein and the ligature tied tightly over it. Ten to thirty co of a 1 per cent novocam at body temperature is injected On removing the needle the vein is ligated and the skin closed The anæsthesia is complete and the bandage is removed. Hæmostatic measures are not necessary There is no after pain Infection was never encountered Sixteen operations were performed on the feet

for ingrown nails, amputation of toes removal of foreign bodies, and incising infected wounds. One hundred and thirty four operations were done on the hands for the removal of foreign bodies, tumors of metacarpal bones, suture of tendons, amputations whitlow, and phlegmon In cases of recent suppuration, phlegmon with fever, cedema, diabetic

gangrene, and arteriosclerosis venous anæsthesia is contraindicated Properly given, venous anesthesia proved reliable in every case

Pinneo Anæsthesla by Pharyngeal Insufflation. J Am M Ass , 1912, lix, 1862 By Surg , Gynec & Obst.

Pinneo says the present age demands, not so much the discovery of new anæsthetics, as refinement of methods and greater accuracy in the use of the materials we have without the use of elaborate apparatus He points out two common errors in ether anæsthesia - intermittent administration, to which many fatalities in tonsil adenoid operations are due and the extraction of heat from the lungs, amounting to about 21,000 calones of body heat for every ounce of ether used He advocates, in place of this insuffiction of other vapor at 87° F into the phary nx, this method having the additional advantage of allowing operation and administration in the same field. He describes a simple portable apparatus which he has used for three or four years with great satisfaction, originally for throat and head operations, but with this method an anæsthetic so dry, even, and controlled was obtained that he has come to use it for all kinds of operations The four essential elements of anæsthesia by pharyngeal insufflation are (1) Steady air pressure, (2) a cock maintaining evenly the delivery of vapor to the patient, (3) the catch bottle interposed between the ether container and the delivery tube, (4) a heating system which will maintain evenness of temperature (incandescent light)

Teter: The Limitations of Nitrous Oxide with Oxygen 25 a General Anæsthetic. J Am M Ass., 1912, hx, 1849 By Surg., Gynce & Obst Teter says that, of the general anaesthetic agents

now employed, the combination of pure introus 120

oxide with oxygen, when properly administered, is the safest, most agreeable, and freest from postanæsthetic complications. It is, however, the most difficult general anæsthetic to administer properly

He advocates morphin and atropin preliminary to anæsthesia A satisfactory anaesthesia for general surgery cannot be obtained with nitrous oxide and atmospheric air, because nitrous oxide is not respirable with less than 7 to 20 parts of pure oxygen, and as the air contains only about one fifth oxygen there would be only about 2! parts of oxygen available An even flow of both oxygen and nitrous oxide is most essential. The cases should be under control, with definite known pressures definite percentage of the gases is uniformly satis-All anæsthetics are safer when administered warm - about go F is the best temperature for inhalation The proper amount for rebreathing to prevent acapnia (diminished carbon dioxide in the blood and tissues) must be governed by the symptoms in each individual case. Nitrous oxide and oxygen were administered with positive pressure for intrathoracic surgery in 18 cases without en countering even a temporary cessation of respiration There is no operation performed at the present time in which nitrous oxide and oxygen cannot be employed This angesthetic is contraindicated in children under five years, in old people in whom degenerative processes are mamifested, and in strong, vigorous, rough men, whose habits include excessive use of tobacco and alcohol The ideal patients for nitrous oxide and oxygen anæsthesia are the very ill, the anæmic, the debilitated, and those possessing low vitality from any cause

L G DRAY

Gwathmey and Woolsey- The Gwathmey-Woolsey Nitrous Orlde-Oxygen Apparatus. N F M J. 1012 xcv1, 943 By Surg., Gynec & Obst

By Surg , Gynec & Obst The Gwathmey Woolsey apparatus has been developed in accordance with the principles recog nized as essential in the evolution of nitrous oxide and oxygen anæsthesia especially those utilized by Gatch Boothby, and Cotton, that is to say, re breathing, reduction of the pressure, and a sight-The apparatus weighs 161/2 pounds while retaining the essential features of the Boothby and Cotton apparatus which weighs 40 pounds two nitrous oxide tanks and one oxygen tank in place (enough for a two hour administration), the total weight is about 42 pounds, not too much for one man to carry a short distance or to shift without assistance from one place to another. In hospitals where the supply is obtained from large tanks or from a generator in the cellar, the delivery hose from these sources may be attached to the apparatus If an operation is of less than 30 minutes' duration enough gas can be carried in three small containers, making the total weight of the apparatus, cylinders, and gas less than 20 pounds

The valve for the nitrous oxide reduces the pressure from 1000 pounds to the square inch to 10 pounds The oxygen is controlled by a small valve invented by the instrument maker, J. Langsdorf A mercurial manometer, which automatically bloss off at 25 mm mercury pressure, is attached for endotracheal work

After the gases have been lowered in pressure they pass into a combination sight feed and warm water bath, where the administrator can see on one side of a nickel partition the natrous oxide flowing, and on the other the oxygen The anæsthetist is thus enabled to regulate the proportions of the gases to the finest possible point. This water sight-feed is warmed by an alcohol lamp adjustable to its under surface, thus supplying heat and moisture, which are valuable assets in the administration of an anæs From the sight feed the mixed gases pass at the top to an exit tube, to which is attached the rubber tube connecting the rubber bag and mask The gas cylinders are opened wide into the reducing valves, the flow from these valves being controlled by very sensitive wheels

The apparatus was especially devised for endo tracheal work. When thus used a connection is made with the tube in the trachea, no bag being necessary. The constant flow of the gases insures.

necessary The constant flow of the gases insures an even anæsthesia without danger. The apparatus is also used for nasal anæsthesia and analgetic work. It has been thoroughly tested

and found amply sufficient for all surgical cases

Coburn Safety and Science in Nitrous Oxide
Administration. Italy Rec, 1912, 1823, 198

By Surg, Gyace & Obst

Coburn presents this as a companion to his article on "Ether Administration" He believes rebreathing nitrous oxide is scientific and adds an element of safety to this form of anæsthesia. In his opinion, surgical shock, as to cause and prevention, aside from hamorrhage is chiefly anæsthetic, local or general In abdominal operations, with the perstoneum open, the patient will tolerate double the amount of rebreathed air that the same patient would breathe with the peritoneum closed. This is due to the fact that carbon dioxide, being a diffusible gas, rapidly transpires through the capillanes into the air whenever there is considerable exposure of these vessels. He condemns elaborate apparatus pressure reducing valves, and percentage gauges, on the ground that they are unnecessary and unscien-The amount of oxygen used is simply to maintain the proper degree of oxygenation, the indications for its use are clear and the amount used is always "q s ," just as with any other anæsthetic

He finally says that the essentials for amsubera are preliminary bypodermic of morphin and atropin, phable control of rebreating and of oxygenthroughout the administration, blood slavays well oxygenated, rebreating bag close to the patient's face, sterilization of all parts contaminated breath and the control of the patient's and the state of the patient's and the patient of the state of the patient of the patient of the state of the patient of the patient of the state of the patient of the patient of the patient of the state of the patient of the patient of the patient of the state of the patient of the patient of the patient of the state of the patient of the patient of the patient of the patient of the state of the patient of the patient of the patient of the patient of the state of the patient of reducing valves and percentage gauges are unnecessary Constant flow of gases prevents pliable control of rebreathing Continuous positive pressure is harmful. L G Dwan

Allen: Spinal Anæsthesia. J Am M Ass 1912 ht, 1841 By Surg, Gynec & Obst

Allen has reported 242 cases, with but 15 partial or complete failures and no deaths He now reports an additional 33 of his own, with no failures and no untoward effects during operation. He advises surgeons to visit Bier's clinic in Berlin for a course in local and spinal anæsthesia, and not to condemn this method as "unreliable, dangerous and no good anyway" because of insufficient experience in its application. In cases in which shocks and sepsis have to be dealt with, this method is often life saving It absolutely blocks transmission of impulses from the periphery to the brain, and this eliminates shock Failures are always due to errors in technique - letting the point of the trochar ship out of the spinal canal at the time of adjusting the syringe for injection He invariably uses a 5 per cent tropacocain hydrochloride solution with epinephrin prepared with Dönitz' formula It is important not to allow patients to come to operation starved and faint. It is not possible for anyone to see a considerable number of cases and not be convinced that spinal anæsthesia, has a future equal to that of gasoxygen anæsthesia, if not greater.

L G DWAN

Bainbridge: Spinal Analgesia. J Am M. Ass, 1912, lix, 1855 By Surg, Gynec & Obst

Bambridge uses stoyam or tropacocam because fewer unpleasant symptoms are apt to ensue, but does not hesitate to employ cocain. The indications for spinal analgesia are the contraindications for inhalation anæsthesia. A number of surgeons of wide experience accept practically no limitations to its use. The real objections to spinal analgesia are (1) The operator is absolutely committed to the dose. It can be increased, but not decreased, when once given With changes in position of the patient and carefully graded dosage, control can be exercised (2) Analgesic effect may pass before the surgical procedure is finished Even the most enthusiastic adherents would not advocate the usual employment of spinal analgesia by the L G DWAN surgical novice

SURGERY OF THE HEAD AND NECK

HEAD

Homans: The Surgical Treatment of Head Injuries Affecting the Brain Boslon M & S J, 1912, clavu, 684 By Surg, Gynec & Obst

Skull fractures may be dowded roughly into two classes indented and bursting fractures. The former cause laceration of the brain and often introduce sepais. The author briefly describes the treatment of these injuries. Bursting fractures are produced by a blow which causes the sides of the skull, equational to the point of impact, to spring and crack. The location of the fracture, unless it ruptures a meningeal vessel, is comparatively unimportant, but most cracks pass through the tem

poral fossa and rupture the ear drum
Burstung fractures cause local or general ordema
and often laceration of the brain surface and pial
hamorrhage Symptoms are due to ordema of
the brain, hamorrhage in the meninges, and medulalry depression. As treatment is to be directed to
the relief of increased intracranial pressure, the
principal diagnostic signate to be observed are deepening unconsciousness and the appearance of bloody
the principal diagnostic signates to be observed are deepening unconsciousness and the appearance of bloody
the constraints of the principal description of the
territorial signature of the principal diagnostic picture, but except as including the injury to one slide
of the brain are deceptive. The value of three and
other signs is discussed

Operative treatment is indicated if, after a varying period of observation, there is evidence of cere

bral ordema and inceration, and the patient's condition does not improve or shows signs of increased intracranal tension and medullary failure. Subtemporal decompression answers the demands of surgery, for (i) it takes the operator to the most common seat of hemorhoge, and (c) it allows common seat of hemorhoge, and (c) it allows of the brain. When operation is not called for, absolute and prolonged rest is essential

The author describes a number of illustrative cases. His experience leads him to believe that in suitable cases, decompression, by checking and draining hemorrhage, and by tiding the brain over a period of pressure, not only saves life but shortens convalescence and favors completeness of recovery.

Auerbach and Grossmann: Case of Bilateral Cysts of the Cerebellum Successfully Operated on (Ueber enne Fall von doppelseitigen mit Erfolg openerten Kleinhirncysten) Mili a d

Grenzgeb d. Med w Chir , 1912, XXV, 455
By Surg , Gynec & Obst

The authors give the detailed history of a case of bilateral cyst of the cerebellum. When the patient was 16 years old, a cyst occupying almost the entire was 16 years old, a cyst occupying almost the entire cerebellum was considered by the control of the cerebellum was curround. Following the feet of the cerebellum was practically well, when symptoms appeared which seemed to indicate that there was now a cyst in the might hemisphere. However, it was possible either that the right bemisphere of the cerebellum was being drawn by cicatrical traction to the left side.

or that a small tumor to which the extirpated cyst had belonged had now grown into the right side

Two punctures of the right lateral ventricle. performed at intervals of 20 days and resulting in the removal of large quantities of fluid, had only momentary subjective results, and when vomiting, pallor, and slowing of the pulse set in, it was decided to open the right cerebellum. After perforation of the skull, amber fluid sourted out and the resouration improved immediately. A piece of the skull the size of a silver dollar was resected The wall of the collapsed and perforated eyst was very thin and could only be partly removed, so that a tampon was made and the operation uneventfully finished. The patient improved rapidly, but had considerable pain in the right eye when the tampon was replaced by a drain This pain stopped, however, when the drain was shortened E S TALBOT IR

Taylor: Neurological Aspects of Injuries to the Cranium and Spinal Column. Boston M & S

J. 1012, CXVII. 675 By Surg , Gyner & Obst Dr E W Taylor draws the following conclusions from a study of head muries. The outcome of a blow on the head is not to be estimated by the extent of manifest brain mury Fracture of the skull is not in itself of grave import. Focal symp. toms indicating laceration are not necessarily serious complications, unless the damage to the brain be extensive such focal symptoms are apt to improve or wholly disappear The possibility, however, of late epilepsy and more or less permanent mental symptoms or neurotic states should always be considered Immediate prognosis is to be deter mined largely by the condition of consciousness if the patient holds his own or improves in this regard, the outcome is in general favorable, if the coma deepens the prognosis must be considered Rest is the first essential of treatment



Fig 1 Case o Jointed splint made of silver fixed labral part has a small inclined plane on the left side nxes about part has a small memor paine of the cell sine and on the right side the perforated arm connects with the immediate prosthesis of the jaw. The lingual movable part can be pressed against the labual part and held there by means of a screw so that the teeth are held absolutely firm (Pichler and Oser)

surgical intervention should be practiced with conservatism

A study of the chinical disturbances and patho logical findings in traumatisms of the cord leads to the following general conclusions Hamorrhage external to the cord is unusual, and need not be seriously considered in deciding upon operation Concussion of the cord without definite microscopic lesions is a possibility. Damage to the cord is immediate following the injury. Nothing, therefore, is to be gained in the majority of cases by immediate operation Surgical interference should in general be delayed until the immediate shock of the innity has abated Operation in any event is unavailing when signs of complete transverse lesion persist Laminectomy may help in selected cases toward restoration of the functions of a partially damaged

Pichler and Oser. Immediate Prosthesis Following Resection of the Mandible (Mittelbar Prosthesen nach Unterkieferresection) Arch f klin Chir , 1912, xcix, No 4 By Surg , Gynec & Obst

This article is a continuation of the one published in volume 84 of this series

In order to avoid the serious complications following resection of the lower jaw, either of the following methods may be resorted to 1 The wound may be allowed to heal and cicatricial tissue to form Prosthesis may immediately follow the opera tion, the temporary splint being removed after cicatrix is completely formed and the permanent splint substituted 3 Implantation prosthesis may be done 4 The defect may be filled by means of a plastic operation



Fig a Immediate prosthesis made of vulcanite, with a system of canals which can be urngated by means of a tube. The six openings for the use of irrigating fluid are located at the joint and on the convex part of the pros thesis and therefore are not visible in the picture jointed prosthesis, fastened with a hook, rests upon a The nodel of the teeth made previous to the operation above illustration shows the jointed splint opened. The connection between the jointed splint and the real prosthesis can be made by means of a screw adjusted to the necessary width (Pichler and Oser)





Fig 3 Immediate prosthesis made of vulcanite and of the best design in accordance with our experience. Above the splint is shown the jaw from which the splint is modeled. Thus design differs from that of others principally in its greater which, particularly in the ascending branch, and in the stamped shoulder whereby it rests against the thin joint end. (Pichler and Oser)

The first procedure has the great disadvantage that the patient is exposed to considerable discomfort, and to great loss of time. It is therefore seldom used. The second method is the subject of this paper. The third is of luttle value, most of the cases with implication prostless heal imperfectly and leave a fistula. The last method is the deal one leave a fistula. The last method is the deal one leave a fistula. The last method is the deal one layer of the deal of the

The author gives it case histories accompanied by photographic histrations. He recommends a hinge splint (Scharmerschiene) made of salver and vulcan it and provided with a class for the teeth. The use of this splint safeguards the bone from injury, specially if it can be fastered to the teeth on the sound portion of the mandible. The change from the contract of th

splint prevents bone necrosis and chronic suppurations, complications so often present with the use of prosthetic appliances that have to be sutured to soft parts and fastened with screws. It is best to have the permanent prosthetic appliances made in duplicate, so that the necessary changes may be made without delay. E. S. Taknor, Jr.

Abadie Osseous Graft after Resection of the Inferior Maxillary (De la greffe ossesuse après résection du mavillaire inferieur, à l'occasion de deux cas d'adamantinome kystique) Rev d'Orthop, 1912, Nov

Abadie reports two cases of cystic adamantinoma of the inferior maxillary bone. In one of these cases a partial resection of the maxilla was per formed without interruption of the mandibular The intervention was economic and proved This case is interesting only from its anatomical characteristics. It is a new formation of multiple cystic cavities containing no normal or abnormal teeth. It contained however, a welldeveloped supplementary tooth presenting the characteristics of an adamantine origin confirmed by the presence of enamel dust and of a nseudo tooth Abadie designates this tumor by the name of polycystic adamantinoma of paradental origin. This term is expressive of the histologic structure, macroscopic aspect, and histogenesis

One of the cases is very interesting. Having to operate upon a multilocular cystic adamantinoma of the inferior maxillary bone, Abadie resected the corresponding half of the maxilla, which was involved in its whole thickness, and transplanted immediately the second rib in the bed left free by the ablation of the mandibular arch. He lodged the small extremity of this rib in the temporomaxillary articulation At the end of two months and a half the graft, which had become injected and had determined suppuration, was eliminated. He asks himself whether it is preferable in a case of this nature to transplant immediately or to wait and transplant later A safe conclusion can be reached only by a careful study of the experience of many operators. It is essential that scrupulous care be taken to avoid soiling during the course of operations, the operative field by the buccal secretions, and to carefully suture the buccal mucosa before placing the rib in its new bed

ALBERT MONCHIT

Frazier. Intracranial Division of the Auditory Nerve for Persistent Aural Vertigo. Surg, Gynce & Obst., 1912, 2v, 524

By Surg , Gynec & Obst

Division of the auditory nerve for persistent aural vertigo is a comparatively new procedure, there being no case on record until the operation performed by Dr. Frazer in 1908. While the vertigo was only partially releved by the operation, he urges, from his experience with this and other operations in the posterior forest, that this procedure operations in the posterior forest, that this procedure

be resorted to more frequently for the relact of persistent and intractable forms of aural tinnitus and vertigo Great care should be taken, however, in the selection of cases, as those cases of tinnitus or vertigo of central origin should be excluded, and those in which the disease is of labyrinthine origin considered most appropriate. The nationt, a woman of 64, had a history of nasal catarrh, and nine years prior to the operation an attack of influenza after which she became a constant sufferer from vertigo. mostly on the left side, so that she gladly consented to operative intervention. The incision was made as for a unilateral suboccipital craniectomy the musculo-cutaneous flap reflected and the bone removed to expose the left cerebellar hemisphere the dural flap turned back, and the auditory nerve exposed by following the direction of the petrous bone The most delicate part of the operation then followed, namely the identification and division of the auditory nerve The hemisphere was retracted and the eighth nerve most carefully separated from the facial, and what remained of the former divided, the latter being identified by the use of a galvanic current, great care being taken all the while not to injure in any way the ficial nerve

The author has found that hamorrhage from the scalp may be readily controlled in these operations in the posterior fossa by introducing a continuous overlapping silk suture one half inch above the line of incision. He advocates very strongly the use of the intratracheal method of anysthesia not only as a matter of convenience to the operator, but because it is a factor in minimizing the risks of the operation first, by controlling venous hamorrhage, and second by counteracting any obstacles that may be offered to the respiratory function when the patient is in the face down position

Tooth: Some Observations on the Growth and Survival Period of Intracranial Tumors, Based on the Records of 500 Cases, with Special Reference to the Pathology of the Gliomata. Proc Roy Soc M 1912 vi, t

By Surg , Gynec & Obst This is a most exhaustive article on the subject and it happens that a great deal of it can best be

given in the tables of the author	or			
TABLE 1		ex	T	otal
Region	м	F	Per	
r Frontal	60	40	100	21
2 Central pre and post parietal	43	\$0	63	13
	24	25	49	IC
	8	- 6	14	3
Corona radiata corpus call num etc			50	
o Lateral ventricle			3	•
	10	4	14	3
7 Pituitafy 8 Ontic thalamus			- 6	
o Mesencephalon	18	8	26	5
	4		4	0
thorond plerus III and IV ventrales			5	
12 Cerebellum	44	33	77	10
13 Fxtracerebellar	10	**	40	
ra Pons	19	14	43	9
				۰
rs Medulla ro Base				
Total	204	195	459	
17 Not localized	74	6.7	_41	
	126	212	500	
Grand total Forebrain 230, or 52 per cent midbra cerebellum and pons 150 or 34 2 per cent	10, 10	or 6	5 per	ces

Of the group shown as not localized, many are unquestionably located in the frontal and temporosphenoidal regions

In regard to the age the author sums up as follows Tumors of the forebrain tend to appear more frequently in middle age, but no age is exempt Those of the midbrain on the other hand are most predominant in the early or adolescent period, and the same may be said of tumors of the cerebellum and pons Comparatively few occur here after 30

As to the variety of the tumor, gliomata comprised 127, or 49 2 per cent, fibroghomata, 15, fibroma 13, endothelioma 37, sarcoma 21, carcinoma 15, tuberculoma 14, simple cyst 5, papilloma 3, choles

teatoma 2, pituitary 2, pineal gland 4

Cancerous heredity was present in 37 cases, or 7 2 per cent In no case was there any history of a brain tumor Ghomata were well distributed throughout the brain, comprising 58 7 per cent of all the growths in the forebrain, so per cent of those in the midbrain, and 38 a per cent of those in the cerebellum and pons Tibrogliomata and fibromata were peculiar to the cerebellum, pons and medulia, endotheliomata occur only in the anterior fossa of the skull Sarcoma occurs in any portion of the brain Of the 21 cases, 6 were undoubted round or spindle-celled sarcomata and were secondary, the remainder of the cases were primary

Of the 15 carcinomata, only one was unquestionably primary Primary tumors in 7 secondary cases were located, 3 times in the mammary gland, and one each in the overy suprarenal, pancreas and rectum

The reason for the small number of tuberculomata in this series is that very few children are included in the series

Simple cyst is a rare condition, many gliomata however, show cystic degeneration Papilloma is a rare condition. There were probably 14 cases of pituitary tumor, but only 4 were verified by operation and of these 3 died and one survived as long as 31/2 years, 2 of the 3 which died lived for six months The pineal gland tumor was not diagnosed as such

As to the survival period of tumors from the appearance of the first symptom to death gliomata, six weeks to nine years, an average of 16 2 months, if we exclude unusual cases the average goes down to 10 1 months which is probably more nearly correct The survival period for the frontal region is longest, the temporo-sphenoidal region comes Endotheliomata survived anywhere from 6 months to 20 years The average of the 5 sarcomata was 11 2 months of the carcinomata, 10 1 months, of the 7 tuberculomata which came to operation, the average survival was 21 5 months Very little can be said about the other forms

Tooth then takes up the subject of the glioma from the histological standpoint. The first thing to be noted is that there is a very great variation between different sections of the same tumor The histological features to be noted are

'r A fine, loose meshed glia reticulum

"2 Dehcately stained, barely visible gha-cells, with three or more branching processes, which divide into a fine reticulum which forms the stroma or connective tissue basis of the tumor. To show these elements, a counter-stain, such as Van Gie

son's, is necessary "3 Scattered over the section in not excessive numbers are the gha nucles, always deeply stained by hæmatoxylin I call these 'glia nuclei' to distinguish them from the more histologically definite 'glia cells' Possibly they also are cells with an invisible cytoplasm The term is provisional only They should be fairly uniform as to size, and not grouped, but even in this apparently innocent quiescent picture these cells tend to show an arrangement in circles or segments of circles, a feature to be referred to later when considering the more mailig nant types

The blood vessels are few and their walls lined internally by a single layer of flattened endo

" elləs ladədt "

Cyst formation is very common in gliomata The first point to be determined is as to what constitutes malignancy and on what changes malignancy rests The arrangement of the nuclei into circles or even lines is an indication of the awakening of prolifera tive activity As to the glia cells, alteration from normal consists in enlargement and increase in number, multiplication of the nuclei, and the dis appearance of the original cell and independent existence of the nuclei

As to the role which the blood vessels play, it is difficult to determine. These tumors are very vascular and the blood vessels are lined by an endothehal lining Usually the larger vessels present the appearance of an arteriole, but some times in the angiomatous forms there is seen a thickening and condensation of the glia tissue about the large vessels Necrosis goes on hand in hand with increased growth It is not too much to say that the more evidence existing in a given tumor of active growth, the more certainly will be found parts in which necrosis is in progress

The glioma shows a tendency to cyst formation more than any other group These cysts are some times single, but more often are multiple. They may be drained with temporary or even prolonged benefit The cyst begins as a rarefaction of the gliomata, and is an evidence of long life and a process

of atrophy rather than of activity

In concluding, Tooth remarks that in the present state of our knowledge we must be content with relieving pressure by decompression on all gliomata C G GRULEE

NECK

Chiarl. Tumor of the Carotid Gland Beile z klin Chir, 1912 Lxi, Nov By Surg , Gynec & Obst

The patient, a man of 37 years gave a history of the development during the preceding three and one half years of a small painless tumor on the left lateral aspect of his neck. During the last few months this

tumor had shown marked increase in size Examination showed a tumor the size of a pigeon's egg, hard, smooth and only slightly movable on deep palpation. Its site corresponded with the bifurcation of the common carotid. At operation the tumor was found to be between the internal and external carotid arteries. The branches and trunk of the external carotid were bgated and a temporary ligature was passed around the common carotid and left in place, while the tumor was dissected from the wall of the internal carotid, which was not injured Operative healing followed Microscopic examination of the tumor showed a connective tissue stroma separating alveolæ which contained collagenic epithelioid cells. A few mitotic figures were observed Chiari does not come to any conclusions as to the nature of these cells They might represent an undifferentiated stage in cell division, or they might be the embryonic cells which are found in the sympathetic M C PINCOFPS system.

Hazelhurst. Subluxation of the Major Cornu of the Hyold Bone (Dysphagla Valsalviana) Bull Johns Hopkins Hosp , 1912, xxiii, 344 By Surg , Gynec & Obst

The ranty of subluxation of the major cornu of the hyord bone, or the infrequent diagnosis of this condition, explains why so few cases have been reported The author's attention was attracted to this fact when he was trying to discover cases with symptoms similar to those of a patient who presented himself for diagnosis in the Laryngological Dispensary of the Johns Hopkins Hospital

The patient, Dr McC - of Texas, stated that in 1887, when a child of seven years, he suddenly became unable to swallow. He was taken by his father to a physician, who tried in vain to get something into place in his neck which had apparently become twisted. The longer the condition persisted the more painful were his efforts to swallow After two days, during which time the child remained with the physician, there was a sudden restoration of the normal condition peatedly after this he had had similar attacks, in which swallowing became at first painful and then impossible They would come on when he sawned or turned his head suddenly Sometimes the condition would be relieved of itself, as in the first attack, and sometimes be was able to obtain relief by pulling hard on the skin in front of the sterno mastoid muscle At the age of 23 he learned to "set it," as he expressed it. He inserts his index finger into his mouth at the side and base of the tongue, at a point which corresponds, when one feels on the outside, to the attachment of the major cornu of the hyord bone to the superior cornu of the thyroid cartilage, and presses outward and forward Something goes back into position with a distinct click. These points were determined on examination during the time in which the abnormal condition was present As far as could be determined by a laryngoscope there was no change in the larynx

A study of the anatomical relations of the byoid bone and of the symptomatology of 11 cases of subluxation of the major cornu of the hyoid bone. including the author's case and ten cases collected from the literature, makes it seem probable that in this case there was a loose articulation of the major cornu with the body of the hyoid bone, or a loose at tachment of the tip of the major cornu to the superior horn of the thy rold, allowing greater freedom of move ment of the major cornu than is normally present

Aside from the author's case he gives histories in brief of it cases which have been reported and he observes that, while the symptoms vary some what in severity, the resemblance between the cases is so striking that the assumption seems warranted that the underlying cause is the same in each case There is most probably a dislocation of varying decrees of the major cornu of the hyoul bone in an outward or inward and downward direction. Fither type may occur as the result of trauma or of sudden movements of the head neck or jans In the latter case, it seems likely that there exists a loosened condition of the attachment of the tip of the greater cornu of the byord bone to the superior horn of the thyroid cartilize, and perhaps looseness of the articulation of the cornu with the body of the hyuil allowing freer play of the tip

Subjectively the patients experienced pum in swallowing (six cases) total mability to swallow (two cases) marked anguty (four cases), and a feeling as though a foreign body were blocking the ersophagus (three cases). In every case there was immediate and marked relief on reduction of the dislocation Lour cases came on during sudden movements of the neck and raws (vawning coughing singing ct.) and four as the result of direct traums from without by choking or from within through the ingestion of a large solid particle G I BEHRY

Schlesinger, Acute I sophthalmic Coitre Three Gegenwart Berl 1912 has \$98 By Surg. Gyner & Obst.

Schlesinger draws attention to the symptoms complex of acute Graves disease which so often is diagnosed as occult neoplasm. Its most striking characteristic is rapid emaciation loss of 20 pounds or more in a month is not infrequent. One patient lost two thirds of his weight in it weeks Sconlasms show such a rapid loss only when in gestion of fluid or food is restricted mechanically Splenic tumor at times of considerable size is quite common It is an early symptom absent only in a few cases I ever is more frequent in the acute than chronic forms of the disease. The type varies. The thyroid gland is often not enlarged indeed it im presses one at times as if diminished in size \ vascular brust always can be heard over the gland it is soft, with thythmical systolic accentuations It is of eminent diagnostic importance. Lye symp toms often are indistinct Lxophthalmos may be absent or slight Stellwag s symptom was present often and early in his cases. Tachycardia was al

ways found. The arterial symptoms tally in many points with those found in aortic insufficiency Blood findings are identical with those of the chronic Leukopenia, with relative lymphocytosis, is the picture represented. If associated with fever and splenic tumor, typhoid fever may be simulated The gastro intestinal disturbances coincide with those present in the chronic form. Schlesinger has observed intense icterus in three of his cases Glycosuria existed several times Resistance in these patients is very low. A slight infection may cause death in a short time Status hypoplasticus has been a frequent finding at autopsy behlesinger thinks that the disease takes an acute course in hypoplastic individuals Acute Graves' disease is a noli me tangere to the surgeon, at least as long as the acute symptoms predominate. It should be our aim to transform the acute into the chronic state Schlesinger suggests the following treatment. Absolute rest in bed with plenty of fresh air, forced feed ing with allumen and fat, antithyroidin (Morbius) 3 tablets daily, or 15 to 20 drops of the liquid three times duly combined with intramuscular caredyl injections (o or to o og daily) After 20 injections a pause is made. X ray treatment is employed in every case despite the objections of Liselsberg that this form of treatment stimulates connective taste formation about the gland so excessively that it increases difficulties during operative interference markedly Phosphate of sodium (Kocher) has been used, but Schlesinger is not convinced of its efficacy Galvanization of the neck and hydrotherapy are recommended Residence in high altitudes (1000 to 1500 metres) is of great benefit | F C RIEBEL

Parrant Thyroid Action and Reaction with Special Reference to the Formation of Thyrold Tumors, Proc. Roy Soc. M., 1912 11 By Surg , Cypic & Olst

In clinical toxemins the colloid of the thyroid first becomes finely granular, then vacuolated and partly absorbed, then the cells become more numer ous clongited approaching the columnar type and arranged in masses The colloid then is entirely absorbed and the infolding and cell increase go on to transform the vesicles into solid masses. This is shown by examination of the thyroids from cases of infantile diarrhera diphtheria measles with bron the pneumonia and whooping cough with brenche pneumonia In order to test this out experimental

ly, the following investigations were undertaken I rest guinea jugs were tested by the injection of diphtheria toxin, and it was shown that some changes were produced in the guinea pig II diphtheria toxin produced thyroid changes, it was thought likely that by the use of thyroid extract some changes in the clinical course might be pro duced and those gumes pigs receiving thyroid extract lived longer than those without The serum of the thy rold fed animals was found to be antitoxic and diphtheria antitoxin was found to contain more thyroid secretion than normal serum

He summarizes these findings as follows (1) The thyroid undergoes hyperplasia in certain diseases. This hyperplasia resembles that following partial thyroidectomy A similar hyperplasia is induced in guinea pigs by the injection of diphtheria toxin, and is mitigated if thyroid administration be com bined with the diphtheria toxin These guinea pigs also survive longer than the controls (2) The blood serum of a thyroid fed rabbit is antitoxic to diph theria toxin (3) Antitoxin fed to normal rabbits produces symptoms similar to those arising from feeding thyroid, while in thyroidectomized rabbits antitoxin is borne without symptoms (4) Diph theria antitoxin contains iodine in organic combina tion, normal horse serum contains but the slightest This indicates some close relationship between the thyroid function and the development of certain antitoxins. It may be suggested that the hyperplasia observed in these toxemias arises from the attempt to form antitoxin

In the formation of thyroid tumors, the toans that produce thy soid hyperplasan must be either eoogen ous or endogenous, and the earlier stages of hyperplasa would not produce a larger thyroid but rather a diminution in size of the colloid material Following this there would be received production of colloid, which would result in the formation of the so called adeposing, or the suvolution may go on to fibrosis. In other words, the changes may be summed up as follows. Hyperplasa sultout thyroid summed up as follows. Hyperplasa sultout thyroid called guenchi, adenomata of its volution, cysts and extradenomia and deceive follows.

As to thyroid tumors in creims, 75 per cent of creins have enlarged thyroids. There are two facts which account for this (1) The tozins circulating in the blood of the fectus will be relatively large in amount, as it will correspond to the toxicity of the mother's blood (2) The thyroid of the normal fectus is always in a condition corresponding to hyperplasis.

Fuller: Exophthalmic Gostre. Surg , Gynec & Obst , 1912, 2v, 585 By Surg , Gynec & Obst

This report makes a creditable showing as to the surgical and non surgical treatment of Graves' disease. When subjected to one or more of the operative procedures now employed in the treat ment of this affection, fully 85 per cent of the cases are cured, both as to thy rotonicosis and secondary changes in other organs.

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and all-around general management mean so much, and afford undisputed evidence of its value

The class of cases in Graves' disease calling for superal treatment exhibits a great difference in degree and severity, necessitating some experience and judgment in the proper selection of the most appropriate therapeutic measure. Any procedure which may exceed the limits of safety as to time or extent of the operation is a question too important to be ignored:

The possibility of such an error is not difficult to understand if the fact is recalled that simple pole hagation will limit the function of the thyroid gland in one instance equal to the ablation of a major portion of the thyroid in another instance

It is quite generally recognized that the more minor procedures, as lighton of one or more of the thyroid arteries should, as a preliminary step, be the operation of choice, because the mild cases call for no more than this to effect a cine, and the more severe cases are so greatly benefited thereby that subsequent surgery of the thyroid gland is employed without hazard or risk

The report argues against the somewhat indiscriminate removal of all forms of thyroid enlargement without thyroid intoxication, on the assumption that these are cases of early Graves' disease. It is but fair, however, to accord to this hypothesis some weight, as the histologic picture of Graves' disease and that of colloid goitre are in many particulars deditical

When formulating and executing plans for surgial operations in Grave' disease the myxochematous or third stage of this affection cannot be eliminated from consideration. Attryoidsm or decreased activity of the thyroid gland may follow any one of the operations now in vogue for the cure of an overactive thyroid gland, and is not infrequently seen in cases not treated at all by surgical means

Camera Primary Tuberculosis of the Thyroid Gland (La tuberculose primitive de la glande thyroide) La Clin Chir , 1912 xx, Oct By Journal de Chirurgie

Primary tuberculosis of the thyroid gland is un immon The author reports one case. A female 51 years of age, had indefinite general symptoms of sufficient severity to confine her to bed for five weeks During that period she complained of cer vical constriction and of a persistent dry cough A tumor was present in the median line below the thyroid cartilage At the end of five months the tumor had reached the size of a hen's egg, and continued to increase in size, causing acute inspiratory disturbances The patient looked bad, emaciation was marked, complexion, as well as mucosa, was The cervical tumor was fist sized and extend pale ed from the hyord bone to the sternal notch, lateral ly, it was bounded by the sterno cleido mastoid muscles It was hard in consistency, and was adherent to the laryngo-tracheal tube

The rapid development of the tumor, the intensity

of the respiratory disturbances, and the advanced cachexia led the author to diagnose cancer of the thyroid gland Extirpation of the mass adherent to the trachea was difficult Shortly after operation the patient died The autopsy showed no trace of tuberculosis in other parts of the body The right lobe of the thyroid was normal, the first rings of the laryngo tracheal canal were destroyed anatomical findings were such that the author regards this case as one of absolutely demonstrated primary tuberculosis of the thyroid gland the cases previously reported, the diagnosis, excent in one instance, was not made during life. In this one it was made through an exploratory puncture of a cold abscess These patients were all subjected to operation with the idea that they were suffering from mulignant tumor of the thyroid These two conditions give similar symptoms. Cancer of the thyroid is frequent but tuberculosis of the thyroid is extremely rare. For the differential diagnosis the author attaches great importance to the absence of pain in the thyroid gland in tuberculosis how ever rapid be the development of the disease or however marked the swelling In cancer, however, the pain is intense and radiating

Among other conclusions he states that in the presence of a swelling in the thyord glind giving the clinical physiognomy of a malignant neophista, one should think of chrone: Inflammation and should resort, before operating, to all known methods of investigation, in excessizy culture experiments should be made. From the prognostic standpoint and from the standpoint of operative indications the importance of a precise disgressize is refut and of a limited operation, succession increases on excellation of the inflammation focus mention of the mediamination of Presex Frent

Shepherd Tetany Following Extirpation of the Thyroid Ann Surg, Phila 1912, IX1, 665

After giving a short résumé of the history of the parathyroids and their relation to tetany Shepherd says there are two theories of the functions of the parathyroids, first that an antition is developed by them which neutralizes certain waste product of trissee metabolism (Berkeley), so that when the parathypoids are destroyed a tonic material is formed in the blood which causes tetany, second, that the calcium metabolism of the cells of the boly is controlled by the parathyroids, and that ther removal causes a rapid disappearance of the soluble salts of calcium from the blood.

There is considerable evidence to support both theories, but the idea, advanced by the earlier observers, that the partityroids are really embryone remnants or portions of foetal thyroid has almost been given up, most workers admitting that they are organs of vital importance to the conomy

In taking up the treatment of tetany, Shepherd first tells of a successful case of autotransplantation of a parathyroid in a case of tetany following thyroidectomy, reported by Brown of Australia, and then goes on to detail a most interesting and instruct ive case of his own The patient, a woman of 34 developed tetany three days after a difficult thyroid Calcium lactate relieved every attack promptly, but only temporardy, thus agreeing with the conclusions of Vocetlin and McCallum, that calcium can cure temporarily any case of tetany due to insufficiency of the parathyroids. The dried extract of parathyroid failed to help the patient, and she was compelled to continue taking calcium after leaving the hospital Seen five months after opera tion the patient was well and had gained 20 pounds, but she had to take 20 grains of calcium lactate twice a day, having gradually reduced the amount from one dram every three hours

The author says that in this case, although no parallyroods were found in the case over the property of the case o

B M BERNEELM

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Brown. Operative Treatment for Cancer of the Breast. N V M J, 1912, 2011, 940 By Surg Gynee & Obst

The following record of 137 cases of cancer of the breast suggests some practical conclusions. Thirty per cent of these cases gave a history of trauma one hundred and thirty-one were operated upon, and in all but to cases a radical operation was per formed.

The post-operative histories of 85 cases have been fraced, as follows Recurrence (or metastiss), in 6 cases within a year, in 46 cases within two years, in 22 cases within three years, and in 10 cases within they pears. There was a single patient alive after 15

Many of these cases were operated upon early in the disease—one on the day the tumor was discovered But macroscopical and microscopical examinations in all cases seem to prove that so called "early" cases are really well advanced The author

believes that the fact that some persons succumb quickly to small cancers, while others live for years with large ones, is due to a difference in the resistance of patients, not to a difference in the virulence of the disease. He suspects the neurones of playing a part in the etiology of cancer

He believes that (1) Any breast operation to be radical must sacrifice the pectorales, major and minor, but in some cases the upper clavicular portion of the pectoralis major may be left, thus getting better arm function (2) If attempting a radical operation, all connecting lymphatic chains should be This may require wide work, as the lymphatics drain the breast in all directions, even to perforating between the intercostal spaces (3) No one method of incision is applicable in all cases Removal of large areas of skin is necessary, and grafting must be resorted to in a minority of cases (4) All late cases on the border line between operable and moperable cases should be X-rayed to determine the possibility of metastasis in the long bones Especially is this true if the patients suffer any neuralgic pains in certain joints E H WILLIAMS

Dardanelli, Anatomical and Clinical Data Concerung Sarcomata of the Scapula Treated by Total and Subtotal Resection (Considérations anatomo-pathologiques et recherches cliniques sur les sarcomes de l'omoplate opérés par résection totale et subtotale) La Riforma Med., 1912, xxviii, Nov By Journal de Chrurige

The author has had occasion to operate, in one year, upon two cases of sarcoma of the scapula, and the results have somewhat discouraged him first patient, whom he saw in the eighth month of his illness, was 8 years of age, and presented a large tumor of the left supraspinous fossa. This tumor completely filled the supraspinous fossa and part of the infraspinous, in fact only the inferior angle of the scapula was free The tumor was continuous, with a hypertrophied glandular mass in the axilla. and on examination it was seen that it also occupied the infrascapular fossa The patient would not allow an interscapulo thoracic amputation, so the author had to limit his intervention to a total scapulectomy In the course of the operation the softer portion of the tumor ruptured and flooded the operative field with a semi-liquid blackish material Upon examination it was found that the tumor involved the bone, the periosteum and the anterior and posterior scapular muscles tumor contained delicate osseous lamellæ surrounded by yellow connective tissue fibroblasts, and small round cells having opaque nuclei The lymphatic glands were not examined, nor was the blood Six weeks later there were two recurrences in the scar, which were extirpated immediately A month later pulmonary and cranial metastases became evident and putient died with encephalo meningitic symptoms

The other patient, a woman 30 years of age, was seen in the fifth week of her illness She presented in the right infraspinous fossa a mandarin sized tumor This tumor was limited to the infraspinous

foss, the balance of the scapula being natact. A sub total scapuletomy was performed, leaving in place the control process, the coracod process are searched setting early. The wound was completely healed on the twenty fifth day. A specumen between the tumor was of periodical origin and was instead to the infraspinous fossa. The bone was not involved but the mustles were influented Histologically, it was a small round-celled sarromathough the tumor was burnted. Dardanelli believes that it was malignant, and he regrets not having made a more extensive extinction.

Schumacher and Roth: Thymectomy in a Case of Basedow's Disease with Myasthenia (Thymektome be enem Fall on Morbus Basedow mit Myasthene) Mitt a d Grangdo d Med u Chir 1012. xxv., 246 By Surg. Cynce & Obst

The authors report a case of Basedow's disease with myasthenia, in which expectant therapy of ten weeks' duration brought no improvement. Ligature of the superior thyroid artery was followed, during the next four weeks, by an aggravation of the myasthenic symptoms, while the Basedow symptoms remained unchanged. A thymectomy was then performed, which was well borne by the patient Soon after the operation the heart symptoms subsided and disappeared, the patient becoming restful physically and mentally After two weeks' improvement the myasthenic symptoms became evident, and fourteen days later the pulse had gone down from 120-130 to 100-120, remaining there until the patient was discharged. Four months after the operation the myasthenic symptoms were much reduced, the Basedow symptoms, bowever, being little influenced An examination fourteen months later showed considerable improvement in both the Basedow and myasthenic symptoms A systematic blood examination is charted. The operation was immediately followed by a pronounced neutrophile hyperleucocytosis, with a relative and absolute diminution of lymphocytes in comparison to previous examinations Ten days after the operation the findings in the blood were the same as before, and examinations made eight and fourteen months later revealed a completely normal picture. The course of the case speaks decidedly against a causal connection between myasthenia, Basedow's disease, and the function of the thyroid gland The ligation of the superior thyroid artery was followed by a constant aggravation of the myasthenic symptoms It seems important that the improvement of the latter occurred decidedly in advance of the favorable influence of the thymectomy upon the Basedow complex E S TALBOT, IR

TRACHEA AND LUNGS

Batzdorff: Surgical Treatment of Bronchiectasis.

Zentralbl f d Grenzgeb d Med u Chir, 1912, xw
No 1 By Surg, Gynec & Obst

This disease is difficult to diagnose, all the physical signs being unreliable, and yet the diagnosis must be certain before operating. The X-ray is of some help, especially where the cavity is deeply located The best time to take the picture is in the morning, after thorough expectoration. Pfeiffer recommends soft tubes and short exposure. The nationt is to withhold the breath in one apposite and take a deep one in the other

With the appearan c of fetid sputum operation is indicated. One lung should be healthy. Hamorrhage from the cavities is a contraindication for operation Lancuation of the abscess is not sufficient, the operation must be radical even to the removal of a lobe of the lune of the cavity is deeply situated Various methods are given with a complete review of the literature I S TALBOT IN

Schänberg Rupture of the Bronchi Due to Thoracic Compression Best the Websiche By Surg Cynes & Oles tot2, Thr. 2218

Schönberg reports three cases of thorsen trau matism in which autonsy showed rupture of the larger bronch. The first case is that of a child of s years who had been run over by a carriage which He was brought into the hospital suffering with intense dyspnera and exhibiting signs of a general ized pneumothorix as well as a subcutineous emphy sema of the whole upper half of the body. Death occurred five hours later. At autopsy the midirati nal tissues were emphysematous. There was a complete runture of the left bronchus close to the hilum of the lungs The external livers were ruptured somewhat higher up than the mucosa The bony portion of the chest wall showed no fractures. The second case was that of a young man of 25 ve its who had been tun over he a heavy wagon. The patient was very exanotic respiration being short and strident. The right side of the chest showed signs of an extensive preumothorax Death resulted from asphyxic At autopsy it was found that there had been a complete rupture of the right bronch. The two ends of the bronchus were separated from each other by more than 6 cm The fifth rib on the right side was broken in its posterior third without any injury to the subjucent pleura. In the third case the autopsy was on a child of 12 years who had been crushed by a carrage and had died almost immediately with symptoms of asphysia. The left bronchus was found ruptured close to the hilum of the lung and the two segments had been displaced a cm. from each other There was, moreover an incomplete rupture of the same bronchus a little lower down which affected only the internal layers There were no fractured ribs

Schönberg has brought together 13 more cases of traumatic rupture of one or both of the chief bronchi, these with his 3 cases gives a total of 16 known cases Of these, 12 followed an injury due to the passage of a wagon wheel over the thorax In 8 cases the left bronchus was affected, in 6 the right, and in 2 cases both bronchi Almost all of the cases were infants or young adults, in whom the elasticity of the thorax allowed a marked flatter ing from examinations of his cases Schönberr concludes that the rupture is due to excessive inter nal pressure acting upon the bronchial wall. He supposes that an involuntary defensive reflex closed the glottes at the instant of the action, and since the bony structure of the thorax in children is un able to support the pressure, the air in the lungs is greatly compressed and the bronchial wall yields He published earlier a case of rupture of the trackea by the same mechanism. He is certain that runture due to a broken rib cannot explain the facts. In the first place the picture at autoray is more that of a tube runtured from intrathoracic pressure. and secondly in most of the cases no fractured ribs could be found. Tiogo has supposed that certain of these cases may be due to overstretching, the great pressure on the anterior and mildle aspects of the chest forcing the two lungs apart until rupture of their bronchi occur Surgical intervention could be of value only if practiced immediately

F. S. TALBOT, IR

PHARYNX AND ŒSOPHAGUS

Mizell Treatment of (Esophageal Stricture I know! Wed just by, 407 By Surg Ganec & Olst.

In the treatment of all resophageal strictures that will admit the passage of a probe of any size, Mizell uns a set of instruments specially constructed with the view of producing gradual dilatation. The set of instruments consist of reinforced Figlish bouges, a dilating electrode with and without probe point a distensible dilator composed of subber and uli bigs placed over the end of a stomach tube, and a gauze electrode. Dilating electrodes and rein forced boughts are used until the stricture will admit the passage of a No 30 sound Dilatation is then continued by the alternate use of the distensible dilutor and the gauze electrode, which is caturated with a solution of thiosinimin As treatment of malignant stricture can only be palliative, a lumen that will admit a 30 to 34 sound will suffice, while in benign structure permanent dilatation of the greater degree is sought

Ronniot and Bideaux: Radiologic Diagnosis of (Fsophageri Diverticula (Diagnose radiologique du diverticule de l'ésophage) Bull e mêm d l Soc d hadiologie mel d Paris 1912 Oct

By Journal de Chirurgie

This patient, 66 years of age, was examined with the fluoroscope as well as radiographed. For the last four years he has suffered from marked dys phagia accompanied by tardy regurgitations (part ly under the control of the will), as well as abundant salivation Lately the regurgitated food has become fettel

The patient was placed in the left postenor oblique position and was given a dose of bismuth This stopped at a certain point of the ecophagus

A second dose was given, which also stopped at the same level and increased the opacity there obtained. The patient was then given some bismuth milk, and the linear shadow of the bismuth could be seen as it flowed by the opaque spot, due to the cachets or powders previously administered. Thus the existence of diverticulum was shown.

The works of Bécler, Blum and Holzknecht have established a radiological symptomatical as motivated have established a radiological symptomatical of the constraint of the constraint of the cases of this nature are now more frequently recognized, though the actual ctology of the cases which are not congenital unough nats not been solved. Nothing justifies the so-called classical distinction between traction diverticals and pulson directicals.

R LEDOUY LEBARD

Watson: Two Cases of Septic Ulcer of the Œsophagus. Brit M J , 1912, 11, 1182 By Surg , Gynec & Obst

The author reports two cases which came under his notice at St. Bartholomew's Hospital, and which should be recorded on account of the rainty of the condition. The ulcer in the first case perforated may be accounted to the left pleury, in the second case in perforation the left pleury, in the second case in perforation of the left pleury, in the second case in perforation of pastice ulcer as anade, and in the second a diagnosis of gastice ulcer. In both cases acute addomntal symptoms occurred, laparotomy was performed, and nothing abnormal discovered. Both cases ended

fatally, and both occurred in males over 40

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Farr: Abdominal Incisions. J. Lancel, 1912, XXIII
601 By Surg , Gynec & Obst

A review of the literature shows that surgeons are more concerned with the methods of closing abdominal incisions than with the technique of making them. The names of Kustaer, Rapan, Bardenhauer, and Pfannentiel are intimately associated with the early development of the transverse incision. Its rationale is based upon the transverse incision. Its rationale is based upon the transverse direction of the fibres of the aponeuroses and the comparative importance of these structures, as well as upon the direction of the nervis.

A careful canvass of the literature was made in order to determine, if possible, the sitety of the division of the rectus muscle. Many excellent authorities consider this procedure harmless when applied to the rectus, or indeed to muscles in general

The author does not doubt that a better exposure can be obtained through the same length of incision by the transverse incision where the rectus is cut . than by the longitudinal If this is a safe and sane procedure, we should at once forsake the vertical incision in most of our abdominal work and use the transverse The method has found greatest favor in Germany, is gaining ground in France and is used to some extent in this country, but it is evi dently not so popular here as abroad In the upper abdomen the author has not hesitated to divide one or both muscles completely In the lower abdomen preference has been given to the Pfannenstiel method In closing the incision the tension is easily relieved by elevating the shoulders and knees The divided muscles are not sutured, but are coapted by overlapping the aponeuroses, which have been split in the direction of their fibres. In very fat people lipectomy may be performed at the same time with great satisfaction

In conclusion, the author says first that the transverse division of the rectus will give the opera tor the best chance to deal with every conceivable pathological condition within the abdomen, with the possible exception of immense solid tumors, with more convenience and speed and less retraction and handling of tissues with the resulting trauma and shock than will the classical method, and excellent authorities who have used the procedure. and some whose opinions apply to muscles in general agree that it is perfectly safe to divide the muscle transversely Second he realizes that this is a radical departure from the orthodox practice, and is not prepared to recommend its adoption at this time, despite its many apparent advantages and the onthions and arguments of these authorities Third in the procedure of Pinnenstiel we have a rational safe and convenient method of opening the lower abdomen, which appears to have certain advantages over the vertical method and is worthy of more general use

Schiffman Tumors of the Abdominal Wall (Luc Kenntniss der Bauchwandtumoren) Arch f Gynäh 1912 xcviu, 543 By Surg, Gynec & Obst

The author reports four cases of tumors of the abdominal wall. The diagnosis in the first was dermoid of the abdominal wall, occurring one year after supravaginal amoutation of the uterus histologic findings showed a pure fibroma, surrounded by a chronic inflammatory capsule second case was diagnosed as fibroma of the ab dominal wall, which appeared one and a half years after laparotomy and was found to an inflammatory fibroma with a chronic inflammatory covering the third case a diagnosis of fibroma of the abdominal wall was made two years after laparotomy for extrauterine pregnancy The histologic findings were a tumor like fibrous capsule around an abscess in the granulation tissue of an early date. In the fourth case the patient felt a tumor to the right of the umbilious after lifting a heavy weight. The diagnosis was dermoid of the abdominal wall, and the histologic findings revealed a fibroma, or rather an induration or sclerosis of muscle, which was almost free from inflammation

The microscopic examination of not only the central, but also the marginal parts, of the tumors of the abdominal wall are of importance for the diagnosis. The tenorted cases show the possibility of spontaneous bealing of abscesses located in the center of the Schofferian tumor, with complete resorption of their contents and with simultaneous formation of large solid tumors. In operation scars solid tumors are found which have no abscess or foreign body in their center, and which represent later staces of lighture tumors. The intermuscular tissue participates to a great extent in their construction. These forms cannot always choically be separated The therapy consists in extirpation The fourth case which was caused by trauma and which was not the late result of an operation, showed no inflammatory symptoms of any importance The muscle tissue or its interstitium here also participated in the building up of thetumor

In ~umor F S Talbot, In

Lejars: Gelatinous Disease of the Peritoneum of Appendicular Origin (La maladie gélatineuse du péritoine d'origins appendiculaire). La vernine Mid., 1912, No. 50, 589 By Surg. Gync. d'Ort.

This is a report of three cases of the disease in question. In each instance operation was performed for appendicitis. In one case following the operation for appendicitis, there was a discharge of relatinous material through the wound. The material contained in these tumors was not as viscul as that found in similar tumors of the ovars, nor was there in any instance a tendency to malignancy. Lejars is rather inclined to think that this began as a cystic appendix the contents of which apparently become gradually gelatinous and discharge slowly through a slight rupture in the distal end masses are then carried to different parts of the abdomen In all o cases have been reported including the can this report

Inflowing operation with removal of the appendix the outlook is very good. The mass consists of small cysts surrounded by a connective tessee wall which may or man out be limed to the entirelium. The epithelium is sometimes colournar? One should not conduct the condition with colloid carrinoma of the appendix in distinguishing between these two it should be borne in maind that prays is not a common or marked symptom of the resulton in young condition.

C G GRULEE.

Falk. Contribution to the Experimental Study of the Radiotherapy of Tuberculous Peritonitis Best kins Weknish, 1912, Ala, Nov 1912, Surg., Gynec & Obst

Falk's therapeutic experiments have been carried out wholly on animals. He has given guinea pigs intraperitoneal applications of the X-ray during

the course of lanarotomies. The strength of the exposure has been sufficient to produce an intense erythema of the serous surfaces. No adhesions or ulcerations due to this radical treatment have been observed In all, 22 animals were used In the first series the animals were inoculated with large doses of tubercle bacilli and the operation was per formed only after the disease was far advanced It this stage, not only the peritoneum and the great omentum but also the liver, spleen and kidneys were studded with tubercles. In these cases the results of radiotherapy given during operation were not marked. The animals treated died as quickly as the controls, but at autopsy it was seen that the tuberculous process was less advanced on that portion of the peritoneum and the omentum which had been directly exposed to the rays. In the second series the inoculations were smaller and the period of treatment shorter, only the pentoneum and the greater omentum were involved by the tu berculous process. In all of these animals which were treated by radiotherany complete healing was obtained whereas of the controls some of which had undergone laparotomy and some not, all showed at autopsy active tuberculous lesions

M C. Pixcorp

Heffenger Subphrenic Abscess Med Times, 1912 11, 121 By Surg , Gynec & Obst

Sulphrenic abscess, being a complication of a preceding condution the 3 mptom of the engual disease must be carefully considered and deductors of the conduction of the conduc

cause
When it is remembered how thin the tissues are
which separate the chest from the abdomen it is
readily understood why these double easily symptoms are at once in evidence

Besides pleural pain with rigidity of lower chest wall rifles dullness and fremitis are generally found Pleuritic effusions may become mixted and fe fol lowed by empyorm. Infection of the pleura may occur from below the disphragm by continuity or configuration.

On the other hand, a basic empy ema may irect the studiny hapmartic region and cause a double about the studies of the studies

enther the bacillus aerogenes capsulatus (Welch) or the paracoli bacillus aerogenes

It is possible for a subphrenic abscess to heal spontaneously through perforation into a hollow viscus or discharging externally, but expectant treat

ment usually results in death

Operation As these cases are of extreme gravity, and are always secondary to some other lesion or septic focus, early recognition and operation upon the causal focus would of course prevent their development Subphrenic abscesses, however, when seen by the surgeon, are generally well developed, and large pockets of pus are usually found course, immediate evacuation of these pus pockets with free drainage, is demanded. Incision and drainage of the abscess having been done, the next step is to search out and remove the original cause It must be borne in mind that distant pus pockets due to extensions from the original or secondary septic foci may exist from the lungs to the pelvis, and they must be found and thoroughly examined In this connection it may be well to recall attention to the quotation from Barnard, in which he illustrates so graphically the extension of abdominal sepsis through gravitation

A subphrence abscess may be reached from above the daphragm or below it, according to its most prominent presentation. When there is a decided presentation, incision should be made through it. The usual incisions are (i) Through the anterior abdomian wall—epigastric. (2) Along the costal border (3) Transpleural, through the chest wall and diaphragm (4) A combination of thoracc and abdominal, after Moynhan (5) Through the loin (Lanelongue) (6) Through the back (Lund) (7) Aspiration, with trocar and tubal dranage (Cantile)

diamage (Cantine)

Walker. Pre- and Post-Adhesions in Abdomen and Pelvis J Iowa St M Soc, 1912, lix, 1855 By Surg, Gynec & Ohst

Adhesions following operations within the abdomen and pelvic cavities are of interest and some thing every surgeon and physician must study

carefully in order to avoid

Walker has proposed the following zones for study and diagnosis (1) The carcal zone, (2) the pyloric zone (3) the omental zone (4) the pelvic zone Especial attention was called to the omental zone, as the study in this zone shows that the omentum plays a far more important part in adhesions than is generally considered. The omentum is a great offender as well as a great defender, and the author is firmly of the opinion that in many patients wherein gastro-enterostomy has been performed the appendix removed, or the gall bladder drained with no favorable result, the omentum was the cause of the disturbance Adhesions of the omentum attaching themselves to other organs do not cause any other trouble, but adhesions to the omentum itself or to the abdominal walls will cause a great deal of disturbance

After describing the adhesions in the different zones, he says of the pelvic zone that adhesions do not cause any disturbance of nutrition, but they do cause more nervous phenomena than in any other zone, and the reason for this nervousness is almost wholly dependent upon the sexuality of the individual

In the treatment, the author says that one who has made a careful study of adhesions can easily understand by medical men have claimed to cure adhesions through medication. The reason is obvious, as adhesions always tend to disappear, and in the majority of patients if the surgeon, and in the majority of patients if the surgeon, and the patient all have enough patience to give nature an opportunity to assert herself in the proper manner, over 90 per cent of all patients having adhesions will entirely recover

Patients should not be advised to have operations for the relief of adhesions performed earlier than mine months following the production of adhesions, except where nutrition is markedly interfered with or there is great pain and suffering Adhesions readily occur following secondary operations, if the secondary operation is performed within a period is in most after the primary operation. One must wait until adhesions have ceased spreading and have become hardened thin, and flat Often it is better to perform other operations and leave the adhesions alone, such as extensive adhesions of the gall bladder and liver to the stomach. In such a case gestive-enterostomy is often preferable

Ransohoff Retrocæcal Hernia, with Report of Case L Clinic, 1912, cviii, 539
By Surg , Gynec & Obst

The author describes a case of retrocaecal hernia, the eighth case of this nature on which an operation was done The patient, aged two years, had two attacks of acute intestinal obstruction. At the first attack which occurred when the child was eight months of age, the obstruction was relieved by operation without discovering its true nature. The symptoms of obstruction recurred when the patient was two years old At the second operation, done at this time, a loop of small intestine was found incarcerated in a retrocarcal pouch. The loop of intestine was liberated and the pouch obliterated by dividing the lateral attachment of the cæcum. The patient left the hospital after two weeks and made a satisfactory recovery in every respect have been no after effects

In the case reported, the site of obstruction was located before operation by X ray examination. The author concludes that perhaps intestinal obstruction in retroperstoned pouches is more common than the cases reported would indicate, that, as in the first operation on his own case, the obstruction may be releved without discovering its true nature. The article contains a review of it the cases intherto reported and a resume of the literature.

Ann Surg , Phila , 1912, ht. 687 By Surg , Gynec & Obst

Attention is called to the fact that this is not such a rare condition as the literature would suggest. It may result from mury or be secondary to other foci of infection in the intestine or it may be metastatic

Delatour: Thrombosis of the Mesenteric Vessels

from distant foca

The nathologic changes depend on the amount of interference with the blood supply, and may vary from small areas of necrosis of the intestinal wall with resulting ulcers to gangrene of many inches of intestine

Initial symptoms are always acute and severe, but there are no pathognomonic signs. Pain is always exeruciating. The symptoms closely resemble those of acute intestinal obstruction by band. Diagnosis is exceedingly difficult and only rarely is made before operation or post mortem

four cases are cited showing different forms of the condition. Lirst the very acute in which a large area of intestine is involved. These require early resection and the mortality is high

The subscute cases involve a smaller area, progress more slowly and offer better results under

may lead to more accurate diagnosis

operation. Several successful cases are referred to The more chronic cases involve smaller areas, but these may be multiple and result in ulceration of the intestine with subsequent symptoms due either to obstruction the result of contraction or following perforation, the signs of peritonitis may appear Three cases showing as many different phases of the

lesson, are reported under this head The condition is one well worths of study and when borne in mind in obscure abdominal cases

Cantus Cyst of the Peritoneal Wall Simulating a Hydrocele kyste de la vaginale panétale simufant une hydrocele) J de chie belge 1912 All 400 By Journal de Chirurgie

A young man 16 years of age presented a right inguing scrotal tumor the size of a fist. Its origin could be traced to the early years of his youth since then it had developed slowly. It was believed that congenital hernia with concomitant hydrocele was the proper diagnosis At operation Cantas found a hernial sac communicating with the peritoneal cavity inside of which there were two cysts the size of a pigeon's egg and of a cherry. Their pedicles started from the vaginal wall at a point 3 cm below the internal ring A rapid exploration of the testicle, of the epidelymis and of the vaginal wall showed that these presented no abnormalities of any Land The hernial sac was treated as ordinarily, the eysis were resected with the vaginal wall. Ten days later the patient left the hospital completely cured

The contents of the cysts presented all the char acteristics of hydrocele liquid. The walls of the cysts had a structure identical with that of the vaginal wall They were composed of two layers one of dense connective tissue and the other of enithelial tissue, which lined the interior surface of the cysts and which was made up of pavement cells I inally, the portion of the vaginal wall from which the pedicle depended, just like the pedicle itself, was the seat of an active inflammation which was characterized by a regular infiltration with polynuclear cells and lymphocytes and by the presence of numerous capillary yessels which had been newly formed and were gorged with blood

Cantas believes that it was this inflammation which determined the formation of the two cysts in question Under its influence, a sort of fold had been formed in the inguinal canal at the point in question and the edges of the fold had then joined in such a manner as to constitute a small serous parietal cyst the inner surface being lined with pavement epithelial cells The cysts so constituted had then developed slowly until they had reached the dimensions described above

Mechanics like this are very logical and square well with the histological constitution of the wall of the cost and with the chemical nature of the liquid contents I DUNONT

GASTRO-INTESTINAL TRACT

Kerr Volvulus of the Stomach Ann Sure Phila By Surg Gynec & Obst

Kerr reviews the literature of this rare condition and adds one case with autopsy to the eight recorded of true idiopathic volvulus of the stomach 1 e volvulus not associated with diaphraematic hernia hourglass inflammatory process or tumor. The muchanism is a rotation of the stomach to the right and upwird about a hise carried through the cardia and pylorus as axis the colon may be carried ahead or through runture of the gastrocolic omentum may remain below As the stomach rotates the nylorus is obstructed first, the cardia when rotation is complete is at an angle of 180° The one common factor to all the cases is a relaxation or rupture of the beaments of the stomach

The probable etiology is an acute dilatation in the presence of relaxed ligaments. The chinical picture is that of acute pain and distintion with or without vomiting which if present soon crases food cannot then be swallowed nor the stomach tube passed, upper abdominal distention becomes extreme displacing the heart and everting the costal arches

The treatment is surgical - and consists of laparotomy, aspiration of the stomach, followed by

replacement and gastropexy if the patient's condition warrants

Mazet. Volvulus of the Large Intestine and Its Surgical Treatment (Les torsions pathologiques du gros intestin et leur traitement chirurgical) Thèse d Lyon, 1912 Nov By Journal de Chirurgie

The author is in favor of resection as a method of treatment in the different varieties of volvulus of the large intestine. He says that in the presence of intestinal gangrene the mere untwisting of the

solvulus does not cause a disappearance of the accretest, and thereforce immediate intestinal reaction is indicated. But as in a large number of cases the patients are already weakneed by a spraing peritonitis it is often preferable either to resert the substed loop and to see the two mouths to the abdommal hearth care's cases, in each case already weakneed to be added to the case of the substed loop and to see the whole loop cut and the substed loop and to see the whole loop cut and the substed loop and the

After having reviewed the different methods employed to secure this end, such as untwisting followed by fixation, entero anastomosis, and exclusion the author shows the advantages of intestinal resection adding that it often has to be deferred, for in the majority of cases it is a mistake to subject patients suffering with acute intestinal obstruction to immediate intestinal resection first step of the operation therefore is to untwist the gut and create an artificial anus. This has the advantage of cleansing the alimentary canal and keeping it so until the patient is in shape for radical operation As soon as the patient's condition war rants it, the gut should be resected The artificial anus is liberated around its entire periphery and closed with a purse string suture before opening the abdominal cavity G Corre

Stromeyer: Pathogenesis of Gastric Ulcer, a Contribution to the Study of the Interrelations of Ulcer and Cancer. Bein's patholog Anatomic us ally Pathologie, 1912, v. No 1 By Surg., Gyuec & Obst

Stromeyer believes that mechanical factors play a large part in the localization and form, if not in the production of peptic ulcer. Its frequent situation on the lesser curvature, he behaves is due to the fact that at this point the alimentary holus exercises a more marked friction. The great fre quency of ulcer at the gastric orifices is to be explained by the firmer consistency of the food parti cles which are packed tightly together at these points An interesting demonstration of the in fluence of mechanical factors is the fact that ulcers of the cardia have perpendicular margins, while in those of the pyloric region the margins are beveled It is the mechanical factors which stamp the gistric ulcer with its characteristic physiognomy though various etiological factors may be responsible for its first production. Stromeyer adds that many so-called indurated ulcers are really early cancers whose ulceration has been stamped with the characteristics of the peptic ulcer M C Process

Jena: The Round Ulcer of the Stomach and Duodenum as "Secondary Disease" (Das runde Geschwur des Magens und des Zwoellunger darmes als "Zweite Krankheit") Mittel a d By Surg, Gynec & Obst

The author's statistics show that gastric and duodenal ulcers are so frequently connected with

certain other lesions and diseases that there must be a relation between them. In many cases this can be proven because the round ulcer appears as a secondary disease. Its origin is not caused by a transfer of the lesson through the blood channels, but is the result of reflex nerve irritation Experi ments speak mostly for irritation of the vagus The effects upon the stomach are important, as they show that muscle movements as well as secretion are dependent upon the nerves Erosion and ulcer are only different stages or degrees of the same process Erosions may be caused by cramps of the muscularis mucose, because they clamp the veins and arteries on their course through the This clamping of the veins and arteries mucosa then leads either to hamorrhagic infarct or ischemia. and these result in local digestive necrosis of the mucosa especially if there is a simultaneous hypersecretion. The location of the round ulcer seems to be where the convulsive foldings or clampings of the musculature are of the longest duration

E S TALBOT JR

Barantchik The Diagnostic Value of Painful Points on the Spine and Cutaneous Zones of Hyperalgesia in Gastric Uleer Roust Pratch 1912 xt Nov By Surg Gynec & Obst

Barantchik has investigated the diagnostic value of pain on pressure over the spinal processes (Openchoyski signe) and of the presence of the cutaneous zone of hyperalgesia (Head signe) in cases of ulcer of the stomach From this point of view he has studied 12 cases of ulcer, 16 of cancer 18 cases of hyperacidia with hypersecretion, numerous cases of gastric catarrh and several cases of hepatic disease. His conclusions are as follows. First the presence of cutaneous zones of hyperalgesis is not constant, it is found in 75 per cent of alcer cases and but very rarely in any other gastric affections. Moreover the zones found in ulcer vary from those observed in other gastric disorders. The hyperalgesia is found over large segments of skin girdle like in form Head considered as characteristic of algesia of gastric origin its localization in the zones innervated by the seventh eighth and minth dorsal seg-One or all of these may be involved In Barantchik's cases the hyperalgesia was always limited to these segments most commonly to the It was always more marked on the left than on the right side and there were 2 cases where all three segments were involved on both sides In one case the hyperalgesia was present over only the seventh portion of the left dorsal segment other gastric disorders one finds only certain pain ful points in these zones In front these are present along the costal margin between the xiphoid process and the anterior axillary line Behind, they are most common between the angle of the scapula and the lowermost rib In all the ulcer cases it has been proven possible to excite pain by pressure on the spinous processes - most usually (9 cases) between the third and seventh dorsal vertebræ more rarely

between the seventh and the eleventh (1 case), or over the twelfth (2 cases) These painful points are very rare in other conditions. In four cases which were operated and in one which came to post mortem the ulcer was found on the lesser curvature In these cases the tender points on the spinous processes were distributed as follows be tween the fifth and seventh dorsal (1 case), between the first and seventh (1 case), between the fourth and sixth (2 cases), and between the fourth and seventh (1 case), in another case the ulcer was found on the greater curvature near the pylorus. and in this case the tender area lay between the tenth dorsal and the second lumbar vertebræ Barantchik found paravertebral tender points (Boas signe) in only two cases He feels convinced of the value of the spinous points of tenderness in the diagnosis of gastric ulcer M C PINCOPES

Alvarez New Surgical Treatment of Ulcer of the Stomach (Nouveau traitement chirurgical de l'ulcère de l'estomac) El Siglo Medico 1912, Nov By Journal de Chirurgie

The author in 1905 published a description of a new treatment for gastric ulcer. It seems to have been completely forgottem. He reports 8 new cases showing the results that may be obtained from his method of treatment. In 1807 he had an opportunity of treating a 40-year-old pattent who showed the small standard standard with gastric pains, womating, especiative tenderness and almost complete include representative to the stomach would tolerate milk only The tumor was removed and the patient ceased to have gastric distress from the day of the operation. Five years later the recovery persisted.

Astonashed at this unexpected result Alware could not help thinking that there was a direct relation between operation and cure, and concluded that the result was due to division of the nerves in the region of the operative field. He decided to renew the experiment in a woman who had a typical gastric ulcer. Though she had no tumor he operated in the same manner and in the same place divising all the nerves of that region. From the fourth day on the same place division and the same place and the s

The first, a female 27 years old had suffered for the past three years with gastre ulcer, vomiting, hematenesis, and gastrie intoferance. Under chlorom ansisthesis he made a certain method of the control of the contr

The same operation was performed on the opposite side. The second day the patient had intense pain along the course of the intercostal nerves. Teeding was commenced on the third day, on the eighth day, soups, eggs, and fish were given and perfectly tolerated. A mild intercostal neuraliga persisted, all the other symptoms disappeared. The analysis

of the stomach contents showed lessened acidity. The second, a male, 40 years old, had suffered for 12 years from dyspepsia. He complained of pain vomuting hæmatemesss, and intolerance of loop the sixth, seventh and eight intercostal pierves on both sides were stretched. Feeding was begun gradually, and all the symptoms disappeared.

The third was a male, so years old. For the pasteight months he had suffered from gastire uleer and
hamatemess The fifth, sorth, and seventh intercostal nerves aree stretched and a segment of the
fifth was resected. This intervention upon the
fifth nerve has the result of a suggestion made to
the author by Pawlow who considers that the fifth
nerve has a greater influence than the others upon
gastine strictions. The results were very sales
factory from all standownits.

The fourth, a male, 38 years old, had an ulcer of the stomach, vomitted and suffered from hæmateme is. The fifth, suith, and seventh nerves were stretched and the fifth resected. On the day follow ing the operation neuralism and hiccough appeared and listed eight days. He made a very sausfactors recovery.

The other cases were of the same nature and gave him happy results. All the patients were benefited by the operation, recovery being somewhat later in cases of long standing Will these cures be permanent? The cases are too recent to permit positive statements. Nevertheless, the first cases are all about six months old, and recovery persists As to the action of nerve-stretching upon the chemis try of the gastric juice, the author explains it as follows In gastric ulcers reflex gastric secretion is very abundant and very acid. It is under the dependence of the sympathetic By stretching the intercostal nerves a more or less marked dis turbance in the sympathetic is induced and the reflex secretion is modified SALVA MARCADÉ

Roberts The Elementary Hypersecretion of Chronic Ulcer, as Shown by the Lactose Test-Meal J Am M Sciences, 1912 cxlw 715 By Surg Gynec & Obst

The test meal consists of 300 cc of weak tea or water to which is added 50 gm of lactors plus two unsalted and unswectened crackers. At the end of an hour a part of the chyme is recovered, and then a definite amount of water is poured into the stomach through the tube and mixed with the chyme by churming it back and forth. From the difference in the another of the stomach with the chyme by churming it back and forth. From the difference in the another of the stomach with the content in the first portion is then accurately determined, and from that is determined the amount of

sugar remaining in the stomach, also the amount of chime which is made up of test med residue and that which is made up of gastric secretion. Repeated test by the author in the same individual slow heat that he results are consistent. For comparison a number of cases were recorded and finds of the test med readule is more than 50 cc gastric motility is below par. The ratio of test med readule is more than 50 cc gastric motility is below par. The ratio of test med readule to gastric uncertainty and the stomach shows about 1 to 1½. If the two are equal to the gastric purce is less than the test-meal, that is deficient secretion. In the 32 cases of enteroptous there was motor insufficiency, and in quite a large proportion the secretion was flow. In 12 cases of ulter the hypersecretion was marked

The author concludes that hypersecretion is strongly suggestive of chronic gastric ulcer. As yet too few cases have been studied to say in just what other conditions hypersecretion occurs

H A Potts

Gwathmer Surgical Treatment of Gastric and Duodenal Ulcers Vo Med Siem Monthly 1912, xvii, 373 By Surg , Gynec & Obst Gwathmer emphasizes the necessity of distinguishing between acute ulcers and acute exac-

gushing between acute ulcers and acute exacerbations of chronic ulcers of the stomach and duodenum. This he says can be done by a knowledge of the symptoms coupled with carefully taken histories.

Actue ulcers are medical rather than surgical, masmuch as So per cent (Fernwick) recover under medical treatment. If, however, in the course of colicial treatment more should be a lack of prompt and the course of the course of

In the face of some of the abdommal catastrophes, such as fullmating pancreatity, or ruptured retopic pregnancy, the wisdom of a primary or a secondary operation is still debated, but there is no divergence of opinion concerning a perforated gastric or duodenal ulcer—an operation, whose promptness is limited by the time necessary to make suitable preparation, is indicated

The use of cathartics is strongly advised against, and morphin is to be used after a diagnosis has been made. Attention is drawn to the fact that chance obstructive symptoms, followed by a perforation, are more rapidly fatal because of the tonic gastne contents, and lowered resistance of the patient (Mitchell).

A free moision (preferably a right rectus) permits rapid operation, and speed spells success in such a dangerous circumstance. The exudate of serum, and the stomach contents are removed by sponging The perforation is located and sutured by a purse-string suture of catgut and reinforced by one or two

Lembert or Cushing sutures of silk or linen possible the caliber of the gut must be considered, and this is best conserved by having the line of suture at right angles to the long axis of the gut. Should the rent prove to be so large or the induration so great as to preclude closure by suture, the opening may be sealed by suturing omentum or mesentery over it. The stomach and duodenum should be reviewed for other perforations, and if the nationt's condition is satisfactory a gastro jejunostomy or a pyloroplasty may be performed It should be borne in mind that the immediate indication is to save life and that the relief of the underlying condition is a secondary consideration Dramage is indicated except in very rare instances where soiling is practically nil and the after care is the Fowler Murphy peritonitis treatment

Chronic ulcers are treated by gastro jejunostomy or excussion or both If there is much pyloric obstruction, a pyloroplasty of the Finney variety may be used. We advocate then loop gastro-jejunostomy of the Mayo Voyinhan type. The ulcer should be excased and molded directly or indurectly by suture, and reinforced by omentum and mesentery. The hourglass stomach resoluting from ulcer should be treated by an excision of the ulcer and by an appropriate plastic operation.

Preliminary to operation we should give the patient frequent livage mild siline cathartics abundant water glucose by rectum, and twelve hours before operation two ounces of olive oil

Post operative treatment should consist of lavage for persistent nausea or vointing. This, however, should be done with extreme caution. Saline by rectum and hypodermodysis, water by mouth as nausea ceases, liquids in small quantities on second or third day, and carriell feeding with the avoidance of unduly coarse food for a period of several months.

Lecène Fire Cases of Perforated Uleer of the Stomach or of the Duodenum, Which Were Operated Early and Cured (Cinq cas de perforations d ulcres de l'estomac ou du duodenum operés précocement et guénes) Le Freis mél, 1912, 21, 865 By Journal de Chrurgre

By publishing these five cases Lecène wants to demonstrate once more that in acute peritoritis due to perforation the fate of the patient depends in a unique manner upon the timeliness of the intervention and the effective closure of the perforation which has been the cause of the peritonitis timeliness of the intervention is subordinate to a timely diagnosis of the perforation Now this itself is easy the chief sign, which is constant and never deceives, is the reflex defensive contraction of the muscular wall of the abdomen This symptom, one might say, is conceded by all to be of the utmost importance, but it is daily overlooked until so much valuable time has been lost that symptomatic treatment can no longer be employed

During the course of ten years Lecène has had occasion to perform an emergency operation upon five patients who were affected with acute diffuse peritonitis, which in four cases was due to the perforation of a gastric ulcer and in one case to the perforation of a duodenal ulcer. All these patients were speedily operated, within from six to twenty hours after the first appearance, always dramatic,

of the symptoms, and were relieved of the peritoritis In three of the cases the diagnosis of perforation of a gastric or a duodenal ulcer was almost certain since the history of gastric complaint of the patients was so clearly established. On the other hand in the other two cases the absence of any signs what ever that would point to earlier pathological eastric conditions made the diagnosis much more difficult Thus the predominance of painful symptoms in the right that fossa in these two cases even made the diagnosis of acute appendicitis more probable than that of a gastric or duodenal perforation. So, in deed, the first incision was made in the right iliac fossa, and it was not until the peritoneum had been opened and the small number of lesions found on the appendix that the diagnosis was corrected. No time was lost in searching for the perforation which proved in the first case to have its seat on the stomach, and upon the duodenum in the second case

It is not sufficient however that the intervention be timely - it must also be rational that is to say it must look above all to the complete removal of the cause of the peritonitis. In the particular class of cases which concern us here it is absolutely neces sary to secure a hermetic closure of the gastric or duodenal perforation. To obtain this essential and vital result it will not do to content ourselves with haphazardly closing the perforation by means of a few stitches plugging it more or less completely with a bit of emploon or coupling it to the liver We must rather whenever it is possible excise the ulcer and close the opening with a double line of suture, according to the established rules if this excision cannot be carried out it will be necessary to bury the ulcer beneath a thick and very carefully prepared seromuscular packing

We add that in all the cases in which the operation is performed in time complementary gastro enter ostomy is a very good precautionary measure Lecene has carried out this gastro enterostomy in four cases, in the fifth case the gastro enterostomy in four cases, in the fifth case the gastro enterostomy in subject who still retains his power of resistance, this immediate gastro enterostomy offers the great davantage of putting the stoneach into good ordition for emptying riself, it also permits us to obtain an extensive and safe buying of the perforation, for we need no longer be comerning to the perforation, for we need no longer be comerned to the perforation at the point of invagnation of the perforation.

So far as drainage is concerned Lecene believes that drains placed in the region of the epigratinum are useless, to say the least and he contents himself with draining Douglas pouch by means of a small suprapulue counter opening. This drain may remain in place for from 48 hours to three days, as

long as one sees that the patient is carefully kept in a sitting position in his bed, or if aspiration is employed if the drain is withdrawn on the fourth or lifth day it will not complicate in the least the subsequent operations, and it also has the advantage of preventing a secondary collection of pus in Doug lay pouch. Drivery

Davis and Deming The Effect of Scarlet Red on Defects in the Mucous Membrane of the Stomach Bull Johns Hopkins Hosp., 1912 XXIII,

By Surg Cynec & Obst While using scarlet red in the treatment of ulcers of varying etiology on the skin, and on mucous membranes it occurred to the authors that possibly ulcers of the alimentary tract especially ulcers of the stomach might be benefited by the use of scarlet red if it could be brought into contact with the ulcerated surface Before attempting to administer this substance to patients suffering with gastric ulcer some experimental work on animals was under taken which was followed by a number of operative experiments. They first investigated the toxicity of the substance when given internally in order to familiarize themselves with its effect on the general health of the animals as regards weight, excretions hemoglobin etc. These experiments were mostly carried out on dogs The animals were given doses of varying sizes during periods of two or three months. In some instances the scarlet red was administered in olive oil and in others the powder was administered in capsules

Briefly stated these experiments led the authors to believe that internal administration of scarlet red eithert in oil solution or as dev powder has no cause effect either on the conomy as a whole or on any the strength of the conomy and the strength of the much all simulation of the mucous anywhere in the almentary tract. The mucous membranes of the bludder and gall bladder were unaffected. Microscopic examination of the various organis and insuesceptic examination of the various organis and insuesceptic examination of the various organis and insuesceptic that the strength of the st

to the dyestuff Experiments were also undertaken to determine the toxic effect of searler red in the lax subcutaneous tissue and in the pertoneal cavity. Here likewise, no untoward symptoms were observed Small quantities of its earler red oil, injected intrapert toneally, were encysted as any other foragin body When larger quantities of the oil or oil emulsion was only local statung of the fat which came in contact with the oil. This material acted in the abdominal cavity as any other non absorbable irritating movier would, and had no specific toxic effect.

After these preliminary experiments the authors concluded that the toxicity of the dyestuff used was a negligible quantity and felt justified in proceeding with the operative experiments. The stomach was chosen as the site of the operative defects on account of its accessibility and also because of the prevalence of ulcers in this organ.

Fifteen sets of experiments were done on thirty dogs Under ether anæsthesia a small portion of the mucosa was excised quite close to the pylorus, in each instance as near as possible in the same situa tion and of the same depth Their experiments may be divided into three groups First, those fed with the oil solution of scarlet rid, second, those fed with olive oil without scirlet red third those fed with dry powder

Those fed with the olive oil alone acted as a control on the other two groups. Briefly, the author has found that in Group 1 (fed with scarlet red oil solution), the defects made artificially in the feeders were further advanced toward healing than in corre sponding controls in four out of five instances Group 2 (fed with pure olive oil), similar defects in feeders were further advanced than in corre sponding controls in three out of five instances In comparing the advancement of the healing in the feeders in the duplicate experiments in these two groups they found that the epithelial stimulation was more marked in those animals fed with the scarlet red-oil solution than in those fed with pure obyc oil In Group a (feel with dry powder), similar defects in feeders were further advanced toward healing than in corresponding controls in only two out of two instances. The authors conclude that

The dyestuff used in this series of experiments is not toxic and apparently has no deleterious effect

on either dogs or rabbits

When given by mouth it is a fat selecting vital stain In the course of months the stain is gradually eliminated Subcutaneous and intraperitoneal in jections stain only the fat in actual contact with the scarlet red od solution

It is difficult to say from these few operative experiments whether the scarlet red has or has not a definite stimulating action on the epithelium of de fects in the gastric mucosa. However the scarlet red-oil solution caused a more rapid and better developed growth of epithelium in the group in which it was used than occurred in the duplicate group where plain olive oil was used

The results with dry powder were not so favorable experimentally but this may have been due to the fact that the material was not continuously in con-

tact with the denuded area

They were unable to determine the relative effect of the scarlet red on chronic gastric ulcers as it was impossible to produce chronic ulcers in dogs with controls of exactly the same size

Their experiments are suggestive and as this diestuff may be safely administered they feel it de serves a thorough chinical trial G I BEILBY

Schlesinger Wedge-Shaped Resection of the Stomach for Gastroptosis (Die Behandlung der Gastroptose durch keilformige Resektion in der Purs Media des Magens) Matteil a d Gren geb d Pers vieum usa usa Wed u Chie 1912 xxv 527 By Surg , Gynec & Obst

In a case of gastroptosis in a woman 51 years old the author resected the median part of the stomach

petuten the pylorus and the cardia, thus removing the narrow part where the walls were touching each other, reducing the length of the stomach to a little below the normal, and making room for the normal position of the other abdominal organs tient made an uneventful recovery, has had no trouble from the stomach since has a good appetite, and feels best when she takes frequent meals of small quantity of food The author warns against resecting too near the pylorus, because the wall of the stomach is more muscular there and its preservation is valuable for good motility There should be sust enough resected to give the stomach the normal shape Only a small number of gastroptoses resist any internal therapy and they have the clinical picture of atoms When chinical observations show that the symptoms are really caused by the stomach, and continued internal therapy fails, operation is indi-The median portion of the stomach in these cases is weakest functionally and its evacuation is delived causing pressure on the colon with resulting construction Resection reluyes all this

E S TALBOT IR

Ropke A New Method of Gastrostomy and Gastrostome und (Lsophagoplastik) Zentralbl f Chir 1912, XXXIX 1569 By Surg Cynec & Obst

The author describes a gastrostomy which he performed according to the method of Jianu Jianu developed the procedure experimentally, and as far as Ropke knows it has not been used practically He describes the operation as follows. An incision was made in the median line above the navel. A tumor was found in the region of the cardia (in operable carcinoma) The omentum was detached from the greater curvature carefully avoiding injury of the gastric vem and artery The vessels were hgated near the pylorus and severed A lock stitch suture is begun at this point 21/4 finger-This suture breadths from the greater curvature unites both anterior and posterior walls and passes up to the fundus far above the point where the left gastric artery approaches the greater curvature The portion of stomach nearest the greater curvature is now detached. This detachment begins close to and in front of the pylorus and runs parallel with the suture to its upper end. The detached portion is reflected outward and wrapped in gauze suture line is invaginated with scromuscular sutures This same suture is continued upon the detached portion transforming it into a tube communicating with the stomach The abdominal cavity is closed up to the point of egress of the tube. At this point the stomach is attached to the abdominal wall by sutures carefully avoiding the vessels. The suture of the tube is then completed \ \ \ small sponge tied to a piece of silk is introduced into the free end and the end closed over it by invagination sutures transverse incision is made belon the classele, the point of incision varying with the length of the tube in Ropke's case 22 cm. The pectoralis major is split bluntly through the meison and a subcutsneous tunnel made ranching to the upper angle of the abdominal wound. The suture protrading from the tube is grasped with the forceps and the tube pulled through the tunnel. Complete closure of the abdominal incosin follows. The tube is attached abdominal incosin follows. The tube is attached are removed, also the sponge, and the mucous mem brane untied to the skin mixing.

The wounds healed by first intention Ropheleves he has seen contractions which resemble persistals in the newly formed tube during passage of food. He thinks that this tube may be used with better advantage for the formation of a new esophatous than the material heretofore in vogue. The tube is longer, its nutrition as assured and it can be to the contraction of the exposularius to when the C. F. Christian of the exposularius to when E. C. Furst.

Tatlow: Jejunostomy in Combination with Anterior Gastro-Enterostomy. Lancet, Lond, 1912, by 1434 By Surg, Gynec & Obst

Terunostomy is an operation which is comparatively rarely performed. The author reports two particular cases showing a fresh use for journostomy These are cases of chronic gastric ulcer where owing to extensive firm adhesions between the pos terior surface of the stomach and the nancreas the ideal procedure, namely excision, cannot be per formed In these cases gastro-enterostomy is the routing treatment owing to the impossibility of getting at the posterior surface of the stomach Experience teaches that these very large chronic ulcers, surrounded often by a mass of inflammatory tissue do not in every case heal after an anastomosis has been made. They appear to need a more complete rest than a mere gastro-enterostomy offers them It is for cases such as these that jejunos tomy combined with the modified Roux gastro enterostomy is suggested Mosmhan has per formed the combined operation in five instances and the author reports two of these cases In both a large ulcer was found on the posterior wall of the stomach adherent to the pancreas. An anterior gastro enterostomy was done in each case, and the patients were entirely relieved for a time recurrence of the old symptoms suggested the advisability of more complete rest and a jejunostomy was done after the Witzel method Although only a few months have elapsed there is no return D C BALFOUR of symptoms

Marinacci Treatment of Intestine Deprived of Its Mesentery by Intestinal Invagination (Traitement de l'intestin privé de son mésentère par l'invagination intestinale) Il Policinico 1012 No By Journal de Chrurgie

The author refers to vanous attempts which have been made to prevent necrosis of an intestinal loop deprived of its mesentery and cut off from its source of nutrition. There is a like difference of pointon as to whether resection should be made

and carried out in a thorough manner or whether a more simple operation will suffice. Spontaneous cure occurs by elimination of the invaginated coil and by an adhesive peritorities between the two intestinal extremities.

The author has sought, on the advice of Prof. Alessandri, to determine whether invagnation could not be utilized as an easy and rapid medium. He argued that it was logical to admit that the rapid necrosis of an intestinal coil, deprived of nutrition and invagnated, would lead to the re-establishment of the continuity of the gut before grave curvulatory troubles had occurred.

artuatory troubles had occurred

He has made 25 experiments upon animals in
order to learn if it were possible for them to survive
after an invagnation of a coll of greater or less
length of intestine deprived of its mesentery
length of intestine deprived of its mesentery
mesentery from the intestine, to effect it,
the mesentery from the intestine, to effect it,
the majority of the first the intestine at the level of the mes, of the intestine at the level of the mes, of the invagnation

The small intestine was selected in ar cases and the
large intestine in 4 Dogs were used in all the
experiments. Ten animals are still ahre while 15

died almost immediately after intervention Facal circulator, distributions after this operation need not be feared unless adhesions be present too need not be feared unless adhesions be present to be formed between neighboring coils and the one operated on Late stenois need not be feared the author found that it was possible to eliminate a coil 8 cm in length. This was the maximal length that could be safely chiminated. The larger the intestine the greater the length of intestine movided the easier it was to produce invagnation and the less the danger of necross of the invagnated portion. The fate of a loop deprived of its meen

terv is its more or less rapid necrosis and elimination.

From the results of these experiments the author believes the operation to be feasible, but one having high mortality. It will always be a procedure of limited application.

A Basser

Le Moniet Ulcers of the Duodenum with Stenosis of the Pylorus and Gedema of the Gall-Bladder, Cholecystectomy, then Gastro-Enterostomy, Recovery (Ucktre duodenum avec sténose du pylore et hydropse de la véscule bihaire cholecystectome, puis gastro-enferotaome, gucrson) Bull et mém d i Soe d Chr d Pers, 1012 XEVIU 1210 By Journal de Chringne

Le Momet reports the history of a man 40 sent of age who for some months had presented all the signs of a gastric ulcer when the symptoms of pylore stenous began very rapidly to maniest themselve. The man was reduced to such a state of emacation and feebleness that he went to a hospital where a diagnoss of gastric distination with stass was made, The examination also revealed the presence of a large tumor the suce of an orange, and to that the gastric distinction with the statement of the such that the such that the statement is the such as the such as

The operation verified the diagnosis of cedema of the gall bladder, but it also showed that this did not produce any compression in the duodenopyloric region On the other hand, after its evacuation by puncture the presence of a cicatricial band was revealed Starting from the first portion of the duodenum, in the neighborhood of the pylorus, it extended above and outward from the cystic canal investing the first portion of it and obliterating it completely at this point, so that a speculum could not be passed in between the bladder and the The center of the adhesions common bile-duct was found to be a cicatricial nucleus occupying the The patient being in a condition duodenal wall too serious to undergo an operation of any complexity, Le Moniet limited himself to a cholecys tectomy Two months later, when the patient's condition had improved, he performed a gastro To day the patient has completely enterostomy recovered

Apropos of this case, Auvray reviewed the com plications which affect the biliary tract during the development of a duodenal ulcer These represent obliteration of the common bile duct and of the duct of Wirsung by an ulcer located in the neighborhood of the ampulia of Vater, ulceration of the common bile duct and of the gall bladder caused by the perforation of a duodenal ulcer, associated with the formation of choledochous or choledochoduodenal fistulæ, stricture of the bladder by cicatricial bands etc. Finally he cited various cases illustrating these pathological conditions which have been reported in the literature, and also the various operative procedures which have been employed in their treat

Gosset has recently operated a woman whose case

deserves to be mentioned with Le Moniet's case and which at the same time is instructive clinically and

therapeutically This patient 55 years of age had during the past twenty years, presented very clear symptoms of cholelithiasis In addition for a number of years she had presented a symptom complex which was considered to be caused by a duodenal lesion Radioscopy revealed the existence of a dilatation of the duodenum above a point of stricture which corresponded precisely with the seat of maximum spontaneous pains The patient was operated after a tentative diagnosis of duodenal ulcer. At opera tion Gosset found a normal stomach, a normal pylorus, and a normal duodenum, without trace of either cicatrices or strictures. On the other hand in the region of the gall bladder, lodged beneath the liver and directed transversely, he found a series of calculi which filled and distended the fundus. The latter, turned toward the left, was closely adherent to the second portion of the duodenum the breadth of three fingers below the first duodenal curvature, the gull-bladder, by reason of its rotation to the left, pressed heavily against the right border of the duodenum After discovering the pathological condition cholecystectomy was performed, and in

addition gastro enterestomy since there was a probability of duodenal ulcer An uneventful recovery resulted, the patient getting up on the eleventh day

Did this patient have a simple lithiasis of the gall bladder or did she also present a duodenal ulcer? This second lesion is most probable, but what develops from this case is that whenever the radiograph reveals the presence of a duodenal stricture it is not only most necessary to take into account the possibility of an ulcer of the duodenum, but also the possibility of an external compression brought about by the gall bladder, even when the latter cannot be felt by palpation, unless the two lesions coexist

From the therapeutic point of view, an operation on the gall bladder appears necessary. So far as complementary gastro enterostomy is concerned, it so little aggravates the prognosis of the operation that its performance is always indicated, and it should be carried out at the same time as the other operation I DEMONT

Gruber Peptic Duodenal Ulcers (Die Lehre über das peptische Duodepalgeschwur) Mitt a d Grenzgeb d med u Chir 1912, xxv, 465

By Surg Gynec & Obst

In 3854 post mortem dissections performed from 1800 to June, 1012 77 per cent had peptic ulcers, 1 5 per cent were in the duodenum, 6 7 per cent in the stomach and I per cent in the ersophagus. The bodies were those of the poorer classes statistics do not however conform with those of Moymhan, the Mayo brothers and M Robson The histories of 88 cases from the Munich clinic and 52 cases from the Strassburg clinic are given in detail In these 140 cases of duodenal ulcer, 17 per cent died of perforation. Gruber emphasizes that circulatory changes in the duodenal mucosa is the chief cause of ulcer Those with arteriosclerosis may have a peptic ulcer and the clinical signs be absent It is discovered only when there is an occult harmorrhage, this is especially so in old people anterior duodenal wall is the usual location of the ulcers E S TALBOT IR

rmann The Necessity of Prophylactic Appendectomy During Gynecological Opera-tions (Die Notwendigkeit der prophylaktischen Hotemann Appendectome bei gynakologischen Operationen) Munchen med Wehnschr 1912 1 2503

By Surg Gynec & Obst.

During the last three years the author has removed the appendix primarily in 32 cases and secondarily in 59 cases of 208 gynecological operations with the best results. On the other band, relapses, and later appendicitis, quite frequently occurred when the appendix was not removed at an earlier gynecological laparotomy He concludes from the above that (1) The appendix should be removed with every gynecological operation, (2) it is not sufficient to remove only the macroscopically changed appendix, for severe inflammatory changes often escape palipation and sight, and a diagnosis is only possible after microscopical examination, (3) in cases of malignant timors, in emergency operations, in patients over 60 years of age or in extensive operations of long duration the removal of the appendix may be omitted, but these are the only contraindications for temoval

L S TALBOT FR

Becker. Appendicitis in a Left-Sided Inquinal Hernia in an Infant. 1rch f Kinderh, 1912, ht Nos 1 & 2 By Surg. Gynec & Obst

According to the author, this is the only case on record where an inflamed and partially gangrenous appendix constituted the contents of the sac of a left sided inguinal herma in an infant two months Examination of the patient revealed an inflamed hard and very tender swelling occupying the left inguinal region. Both testes were in the Temperature 38 8° C The diagnosis lay between incarcerated herma hydrocele commumcans or abscess. After dividing the skin and fascia a sac filled with scrous fluid protruded. The gangrenous appendix was lodged in the sac Complete recovery followed the removal of the appendix The author ascribes the condition to an abnormally E 5 TALBOT IR movable cecum

Sugl Changes in the Appendix with General and Peritoneal Infection (Ueber Veranderungen des Wurmfortsatzes bei allgemeiner Infection und bei Peritonitis) Virchou's 4rch 1912 ecv, 294 By Surg Gynec & Obst

After a consuleration of 27 cases of perstonal and 13 of general infections, Sug comes to the following conclusions. In general infections staphylococc and streptococci emboli may be formed in the appendix without any surrounding reaction. The emboli may locate in any liver of the appendix of the properties of the appendix of the properties of the prop

In actie purplent personates unlammatory changes are found in the appendix corresponding to the duration of the personal infection. In most cases these changes are confined to the serous alone or to the serous and the outer layers of the mission attacked, and still more randomizeness externs, seek and the series of the submitted of the mission of the serous cases are not to the submitted to the mission of the submitted to the mission of the submitted to the mission of the mission of the submitted to the mission of the mission of the submitted to t

cases of this kind all dealt with children, and the cause of the process was the streptococcus progress. The entire appendix may be attacked, or the distal and may be affected worse than the promised in the majority of cases the infection apparently comes from the mesenteriolum, and is more intensely developed at the junction of the mesenteriolum with the appendix Processing Section 1, 12 to 1, 1

Depage and Mayer Radical Treatment of Cancer of the Rectum (Traitement chirurgical du cancer du rectum) J Med d Brux, 1912, Nov By Journal de Chirurge

These authors discuss the etiology diagnosis and pathological anatomy as well as their personal ideas of the treatment of this condition. They insist first upon the importance of pre and post operative care. They do not habitually perform a preliminary artificial anus they believe that the influence of this operation as a means of disinfecting the rectum is illusory and that the presence of an artificial anus compromises asepsis in cases of abdomino perineal intervention and interferes with the maneuvers to lower the rectum An artificial anus is made only in cases in which the cancer is immobilized by a mass the nature of which cannot be definitely determined chaically, and which may be inflammatory and non peoplastic and disappear after the colostomy to the extent of rendering the rectum externable. In all their operations upon the rectum except those which are amenable to the abdoming permeal operation, they place the patient in the ventral position. In cancer of the inferior nortion of the rectum they perform the operation of Lisfranc Quenu Baudet

If the tumor is in the middle portion of the rectum or even towards the upper portion of the ampullathey use the sacral method They make a median cutaneous incision extending from the middle of the resected sacrum to within 3 or 4 cm, above the anus The coccyx is liberated and the rectum, circularly detached from the neighboring organs, is ligated below the tumor by a strong silk ligature, A supplementary silk suture below which it is cut closes the superior segment which is then detached from its lateral and anterior adhesions and progressively lowered One should be careful to seize the vessels and divide the surrounding tissues so as to save as much as possible the collaterals and thus not compromise the rectal circulation. In the course of the operation the peritoneal cul de-sac is opened. It is carefully sutured when the lower ing of the bowel is considered sufficient. In fleshy subjects with short mesos descent of the rectum is at times difficult. One should in these cases lengthen the segment by nicking the longitudinal bands of the intestines so as to unfold it the gut, accordion like. When this has been done the two ends have to be united These authors invaginate the gut, carrying the proximal end through the anal portion and fixing it by a few stitches to the skin If the tumor is near the sphincter abride the

mucosa of the entire inferior segment and invaginate the superior gut segment through the sphincter

The wound is left open and picked

In rectosigmoiding cancer, or a cancer involving the entire rectum, the authors use the combined abdomino perineal method. They practice a high peritonization of the abdomen. After transversely incising the abdominal wall above the pubic sym physis they detach the peritoneum of the superior lip and fix it by a few sutures to the posterior pelvic peritoneum

Golpel has performed 21 of these abdomino perineal operations with only 3 deaths. The authors insist that the prognosis of intestinal cancer treated surgically shows during the last few years a very marked improvement Patt Mathiet

Fiting: The Treatment of Fistula in Ano, With Especial Reference to the Whitehead Operation tue burg Phila tque les "44

By Surg Corner & Obst

Publiculosis plays a comparatively unimportant rôle in the etiology of histula in ano not more than to per cent of the cases being of this variety. Most fistulæ originate in an infected hamorrhoid and the infection is of the usual pyogenic character Practically all persistent fistulæ in ano communicate with the bowel although in many cases this communication may be microscopical rather than macroscopical Two cardinal principles should underlie the treatment of fistula in ano first the separation of the fistulous tracts from the communication with the bowel second the adequate closure of the communication with the removal of all the diseased tissues in the rectum. The treatment proposed by the writer consists of a Whitehead operation carried just above the level of the internal opening of the fistula or if no internal opening is de monstrable, to the level of the insertion of the levator ani muscle The healthy skin and mucous membrane are approximated with interrupted silk sutures and the fistulous tracts carefully curetted and lightly packed with gruze Complete healing is usually obtained in from 10 to 20 days This study is based upon 105 consecutive cases treated by this method, with cure of the fistulæ Of these 105 cases all of which were carefully examined histologically, only o proved to be tuberculous

From his studies and experience the writer draws

the following conclusions

First that probably not more than ten per cent of fistule in ano are tuberculous and that a great majority of these are secondary to demon strable tuberculosis elsewhere in the body usually in the lungs Second that a widespread and often destructive dissection and removal of the fistulous tracts in the perirectal tissues is unnecessary Third, that it is possible to cure fistule in ano without injury to the sphincters and with a preserva tion of all the sphincteric function possessed prior to operation, by the application of the Whitehead principle of rectal excision

LIVER, PANCREAS, AND SPLEEN

Gade, Thévénot and Roubier: Liver Abscess in Autochthonous Amobic Dysentery (Les abscès du foie dans la dysentérie amibienne autochtone) Archeo d mal d lappar diges e d I nulrition,

1912, 11, Oct By Journal de Chirurgie The authors could collect only four cases of autochthonous amorbic dysentery occurring in

They report two cases in which dysentery nas complicated by liver abscess

In the first patient a clinical diagnosis of hyper trophic hepatic cirrhosis with ascites was made The subject was an alcoholic and presented the stigmata of tuberculosis. There were present hepatic The autopsy insufficiency and terminal delirium disclosed a voluminous abscess of the right lobe of the liver containing two quarts of yellowish pus There were multiple ulcers of disenteric origin in the cæcum and an old pulmonary tuberculosis There were permardial and pleural adhesions There were numerous vellow ulcers of the intestines which did not extend beyond the fundus of the glands Diplococci and tubercle bacilli were present in the hepatic pus

In the second patient a clinical diagnosis of hepatic hypertrophy was made. There was present a large abscess in operation was performed. The autopsy disclosed a voluminous liver with an abscess containing a litres of pus. There was a small theress posterior to the first. There were no intes tigal lesions. There were amorbie in the abscess The injection of the pus in guinea pigs deter mined a mild tuberculization The contagion of autochthonous amabic disenters is usually due to contact with disenteric subjects

As to the pus of a liver abscess, it is often sterile, but this sterility is usually secondary The amabr must be sought in the scrapings or in the abscess The association of tuberculosis is relatively frequent The diagnosis is difficult. It is important to keep in mind the antecedents of subjects having a large liver difficult of interpretation. If the tumefaction of the liver is localized, the diagno sis is easy but it is often late. Rapid increase in the size of the liver and localized tenderness on palpation are suggestive. The presumption of hepatic abscess leads naturally to the examination of the intestines, either directly with the rectosigmondoscope, or indirectly by examination of the stools for amorbie and inoculating the intestinal tube of a young cat with the rectal contents of suspected case Early diagnosis enables one to institute an effective therapy which will always consist of the opening and drainage of the abscess In all cases exploratory laparotomy is preferable to blind puncture

Munk A Case of Cure of a Simple Cyst of the Liver Berlin blen II chnicht 1911, xlix, 2174 By Surg , Gynec & Obst

A woman 44 years of age had suffered for two years with digestive disturbances and had become extremely emaciated A large tumorous mass was present in the region of the liver Examination of the tumor suggested its being a cyst, but its precise nature was impossible to determine, the echinococcic reaction of Weinberg was negative, Wassermann's reaction was also negative, and only the cancerous reaction of Brieger was positive Jaundice was rather pronounced, but there was no urobilinuria General condition was extremely low

Upon operation, a cyst as large as a child's head was found. Since extirpation was impossible, the cyst was attached to the anterior abdominal wall without its being opened, after a subjacent protective barrier had been prepared Upon puncture, two days later, an opaque fluid escaped which proved to be sterile Tests for urobilin in the urine always proved negative Jaundice caused by com pression of the bihary tracts still persisted

Six days later a second operation was decided The effects of this second intervention were very grave, but the patient finally recovered jaundice disappeared after a few days, probilinuria appeared four days following the operation, after a colon bacillus infection of the gall bladder had resulted from removal of the cyst

From the fact that in spite of a very marked bihary retention urobilinuria was absent until after infection of the bile. Munk agrees with Schill, Mueller, and Hilderbrand, and concludes that when urobilin is normally formed in the intestine by the reduction of bilirubin, it passes into the vena portaand is destroyed or transformed in the liver into bilirubin, but that when the pathological changes in the hepatic parenchyma prevent the destruction of probilin it passes directly into the blood and appears in the urine Yet there are cases such as the above in which in spite of a marked arrest of liver function urobilinums does not appear so long as this arrest is purely mechanical, while an infection of the biliary tract will nearly invariably cause We therefore have pointed out to us urobilinuria here a diagnostic and prognostic significance of probilinura which it will be well to remember E S TALBOT, IR

Hellström. Spontaneous Recovery from Acute Post-appendicular Suppurative Hepatitis Beste s klin Chir 1012, IXXX, 546 By Surg , Gynec & Obst

In this article Hellstrom gives two interesting cases showing the possibility of spontaneous recovery from acute post-appendicular suppurative hepatitis, one of the most dreaded complications of appendic ular infection

In the first case the recovery was probably not absolutely spontaneous, since a small intrahepatic abscess had been opened by an incision, however since the liver was extremely enlarged, it seems more than probable that there were abscesses present other than the one (no larger than an egg) which had been opened, and yet the patient, after a pro longed period of convalescence, finally recovered

In the second case only an exploratory incision was made, which showed an enormously enlarged liver with numerous abscesses situated on its external surface The incision was closed without further interference This patient also recovered, although for a number of months he presented fever and other signs of general infection

These two cases prove that post appendicular suppurative hepatitis is not always a fatal complication, and that recovery may occur spontaneously The operations which were performed in Hellström's two cases were absolutely insufficient to explain recovery These facts, together with those already published by Treves and Koerte give occasion for reflection to those who publish cases of recovery "due to operation" for suppurative hepatitis with multiple foci EUGENE S TALBOT, JR

Lothelssen: Tuberculosis of the Liver and Its Surgical Treatment (Ueber Lebertuberculose und deren chrurgische Behandlung) Beite z klin Chie 1912, lxxxi Nov By Surg Gynec & Obst.

Liver tuberculosis demands more attention on the part of the surgeon Certain forms offer promises of good results by surgical interference. Simmonds found the liver involved in 82 per cent of autopsies performed upon 476 tubercular persons Conglom erate tubercles were present in but 2 of these cases Zehden (Moabit) observed liver tuberculosis in so per cent of his autopsies Elliesen (Erlangen) found 4 cases of solitars tubercle in 460 cases but considers this number too low and thinks it includes only those cases where the tubercles were macro scopically visible Suzuki examined 70 cases (Wurzburg Pathological Institute) and found upon microscopical examination miliary tubercles in 44 cases In 25 of these the tubercles could be discerned macroscopically Zehden is of the opinion that the miliary tubercles are the result of a rapid infection occurring shortly before death due probably to a cessation of the physiological forces which ordinarily are powerful enough to resist dissemination of tuberculosis in the liver

Another form of liver tuberculosis is characterized by the formation of large cheesy nodules form has been described by Hesch, Birch Hirsch feld and others The podules arise from the inter Johnlar connective tissue because here the tubercle bacillus finds favorable conditions for development By confluence they may attain a size from that of a hazel nut up to that of a fist. The nodules may be single or multiple. In cattle this form of conglomerate tubercle is found more frequently than in The process may lead to abscess formation within the liver or its vicinity Both groups have some points in common, but are best considered separately Lotherssen has collected 34 cases of the first group and 13 of the second Each group con tains one of his own cases

1. Conglomerate tubercle Man, 24 years of age, had typhoid 5 years ago In 1900 cough, fever, pains on right side, operated upon for empyema

Later he had a recurrence of the fever, this per sisted up to the time of admission. The patient had two fistular in the eighth intercostal space on the right side. Both discharged copiously, the discharged material resembled that from a tubercular

cwity The excursions of the right side of the thorax were less than of the left An area of duliness began two finger breadths above the right nipple and extended two finger breadths below the costal arch. It was continuous with the liver dullness and changed with respiration Rough breathing could be heard over the apices but no breath sounds were perceived over the area of dullness which passed horizontally from before backward Typical night sweats X-ray showed the following Both upper lobes were filled with numerous shadows the size of a pea or bean, some appeared to be calcareous The glands at the hilus were enlarged on both sides infiltrated and some were calcarcous. The right side of the diaphragm moved but slightly Patient complains of pains in the right side both spontaneous and upon deen inspiration. Localization of the pain is indefinite - at times at the costal arch and Ten em of the again in the parasternal line seventh and eighth ribs were resected and an abscess cavity about the size of a silver dollar and 2 mm in height exposed. The inner wall was formed by the diaphragm By splitting this a cavity the size of two fists was discovered. It was situated in the liver and filled with cheesy detritus Microscopical diagnosis was chronic tuberculosis. The wound discharged bile for some time. Later the fever returned necessitating a second operation. Four ribs were found to be carious, and a second large abscess cavity was discovered Rib resection and evacuation of the cavity were done. Patient began to improve markedly, but later suffered again from a return of symptoms which led to the opening of another cavity 1 fourth interference became necessary to remove another conglomerate tubercle After that permanent improvement followed. The wound closed and the apical tuberculosis improved

2 A case of subphrence obscess Woman, 6; cars of age. Three years ago she had an attack of pleursy. She has now a tumefaction at the right costal arch. The tumer fluctuates 1 mension parallel with the costal arch was made and pus vectuated No cavity could be discovered in the strength of the cost of the c

This case and one of Langenbuch do not show the definite origin of the process from the liver, but tally so well with the other cases collected that Lothessen does not hesitate to place them in this class Infection takes place by the blood stream in the majority of cases. The primary focus of infection may be found in a cheesy bronchial lymph gland Infection from intestinal ulcers is hardly

to be considered in the surgical form of tuberculosis Foci in the lung occur in a large number of cases The right lobe of the liver seems to be involved preferably The nodules usually are well circumsembed and may even be shelled out Bacilli can seldom be demonstrated in the lesions. The walls of the cavities differ from those of ordinary or of tropical liver abscess. In the latter the cavity resembles that seen in gangrene of the lung. It is difficult to differentiate the conglomerate tubercle at times from sarcoma or carcinoma Gumma of the liver is less clearly defined, above all much richer in connective tissue, and the central portions frequently show scar formation. The center of a tubercular nodule shows the largest amount of softening. If the tumors are situated superficially they may protrude above the surface of the liver, but as a rule adhesions with adjacent organs are formed These adhesions are the result of a local tubercular peritonitis general tubercular involvement of the perstoneum seems to be infrequent. Dissemination of tubercles upon the lower or upper surface of the diaphragm is not infrequent, leading in the latter case to development of a tubercular diaphragmatic pleurisy. This may cause a saccular empyema

The symptoms of tuberculosis of the liver are vague Of the 47 cases collected by Lotherssen, 21 presented no sign of involvement of any intraabdominal structure, 15 were operated on and only in 3 of these a correct diagnosis was made before the operation 1 tumor at the costal arch was observed in 14 cases, in 8 of these fluctuation was present due to a subphrenic abscess as proven by operation. A solid tumor connected with the liver was present in 5 cases. It seems that localizing symptoms appear only when the process had reached the serosa. Pain may be present in the side or may be felt as a continuous dull girdle pressure, the same as is found in diaphragmatic pleuriss. Cough and dyspnora may accompany the pain tubercular process is confined to the interior of the liver, the symptoms are chiefly those of gastrointestinal disturbances. Tuberculous of the liver leading to the formation of large nodules should be

treated surgically At times a simple laparotomy seems to produce marked improvement Hanot and Gilbert point out that healing may occur by currhotic changes These may be favored by a laparotomy As a rule, however, more radical interference is preferable. Isolated nodules may be treated by cuneiform excision, with preliminary placing of catgut sutures Larger or multiple nodules require regular resection, here preventive hamostasis by intrahepatic ligature after Kusuetzoff and Peusky is to be used Ligation of a branch of the hepatic artery may be of great service in resection of an entire lobe Ransohoff employed resection by the two step method. This seems to have been accountable for the unfavorable Twenty-four hours after the placing of an elastic ligature and delivery of the tumor from the wound a severe hamorrhage set in, necessitating

removal of the tumor with the ciuters patient died six days later from a necrosis of the gastric mucous membrine Lothersen favors curettement after ample exposure of the focus Hamorrhage is not very marked. The cautery may be used in addition to reach the deeper tissues. In the after treatment he considers awalding with tincture of toding to be of great importance. In cases of coexisting empyema, transpleural approach is the best Exploratory incision should not be delayed too long in doubtful cases. Recovery from tuberculosis of the liver may be expected (1) if treatment is instituted early (2) if the patient is young as he has greates power of resistance (4) if the operative procedures are not too severe

I C REBRE

Tuffier Non-Parasitic Cyst of the I iver (Billiery Anglorna) (hyste nonparastaire du foie angiome b haire) Bull e mem d I Soc d Chir d Paris 1912 \$\$\$\$10 GAS By fournal de Chirurete

Last November Tuffer had our mon to operate on a young man as years of age who had consulted him regarding a voluminous abdominal tumor, the existence of which he had first noticed about two and a halt months before. The tumor the size of two jists was not accompanied by inv hepatic disturbances and had discommoded the principle only because of its size. It presented ill the chiracteristics of a hydatid cyst of the liver (there was no hydatid thrill but the deviation of the complement was positive and recepting this diagnosis. Tuffer intervened. When the abdomen was opened be perceived that the whole lower portion of the right lobe of the byer was occupied by a fluctuant multilobular tumor which looked like a polycyst when punctured at various points it give forth a liquid which was sometimes elect sometimes biliary sometimes dull dark colored. The other portion of the right lobe and the left lobe of the liver appeared absolutely healthy as did the right kidney out causing any great loss of blood Tother was able to remove this tumor from the parenchyms of the liver, from which it was marked off not by any fibrous membrane but by a condensed hepatic tissue The loss of substance was repaired by drawing the healths tissue together by means of heavy citigut drawn moderately tight. The pittent recovered without any accidents. Tuffer saw him again during the last few days and found him in perfect

The principal interest of this case lies in the histological examination of the tumor

The tumor was formed of multiple cavities each completely isolated from the other The majority of them contained a liquid which was plainly biliary, but some of them contained a liquid which was clear, rich in albumin, or containing on the other hand, a liquid which was dull puriform and of a chocolate color The wall of the cyst was formed of fibrous tissue and on the inside was lined with cylindrical or cubic cells which resembled the cells of the bilitry duct. In the intercystic partitions atrophied bepatic tissue was found I D: vost

Syms: Gallstones \ 1 M J 1912 2011 014 By Surg . Gyper & Oher

The chief etiological factors in the production of gallstones are infection and inflammation. These two bring about the final causes, namely, change in the character of the bile and stagnation of the flow of the bile

There is a close association between the liver (with its bihary system) the stomach and intestines and the panereas. These organs are associated ambryologically histologically physiologically, and pathologically Disease or inflammation of any of these organs may become a factor in the production

of callstones The serious lesions and complications which are caused by gall-tones are only found in a more or less idvanced stage of the disease The early pathology of cholclithisis is simple the late pathology is complex I herefore early operations may be simple in their nature and will be almost certain of cure On the other hand delayed operations must usually by of a complicated character with more risk to the patient and with less certainty of cure Gall stones tend to the production of cancer Cancer of the gall blidder is practically always preceded by gallstones

In some cases the classic text book picture is presented and diagnosis is obvious. In most cases the symptoms are mild and more or less vague and diagnosis is not easy

Operation is the only treatment for gallstones and it is always indicated when the diagnosis can be made and often when the diagnosis must be assumed Larly operation is not dangerous. Delay in operation is dangerous. The death rate in biliars surgers bears a distinct relation to the period of the disease

As gallstones are dependent upon infection drainage is of the utmost importance. It should be a routine procedure and should be continued until cierr bile flows Cholecystenterostomy is an important procedure The gail bladder should be preserved unless there is strong reason for its re-

The author a reasons for the removal of the gall blidder were misstated owing to a typographical CITOT

Clark Gallstones Coincident with Other Surgical Lesions J Am M tas 1912 hx 1587 By Surg Gynec & Obst

Clark reports the histories of 86 cases of chole hthiasis found coincident with some pelvic lesion for which the operation was primarily performed He especially draws attention to the fact that the gynecologist must be ever on the alert to differentiare between symptoms referable to the pelvic organs and those which hitherto have largely been consid ered reflex. In the majority of these cases in which

reflex symptoms appear to be dominant, the real cause has usually been found in the organ from which they emanate, and therefore are not reflex, but arise from definite local pathological changes

In his series of over 100 cases of cholelithiasis with operation, in various hospitals, coincident with some other primary lesion for which the pitient was admitted to the hospital there were only a very few in which there was not more or less direct physical disturbance ranging from the classical attacks of colic to the less direct symptoms of indigestion, Thus, in 86 cases under immediate review. from his service in the University Hospital, 39 gave a history of unmistakable gallstone attacks. In 14 the patients complained of indigestion, a term which encompasses such symptoms as gaseous eructation, sour stomach heaviness after eating, vague distress in the epigastrium etc., in 7 there was pain in the dorsal region posterior to the gall bladder, in z the symptoms were questionable, and in only 19 were there no symptoms which could be attributed to the cholclithiasis The conditions for which the primary operation were performed varied quite widely. The commonest coincidence was gall-tones and myoma uters there being 27 such associated The remainder were distributed as follows Retroflexion of uterus 13, relaxed pelvic floor 9 ovarian cyst, 6, umbilical hernia, 7, salpingitis 7 appendicitis, 4, movable kidney, 1, uterine polyp, 1 prolapse of uterus, 1, hæmorrhoids, 1, metritis, 2, pyosalpinx, 1, intestinal adhesions from former peritonitis, 3

In this series there was one death from cholemia in a common-duct case coincident with a large ven tral herna. Argument against the removal of the stones as being unnecessarily dangerous therefore in the face of the small mortality is hardly necessary.

to sustain the combined operation

The contramidcations to the examination of the upper abdome, as observed in his cline in the University Hospital, were (i) In the event of a bleration of pus in the pelvic or lower abdominal cavity, the hand should never be passed from a septic to a non septic area (2) When the microson is too small to admit the hand, and there are no symptom and the supplied of the carmon too the supplied of the carmon to the supplied of the viscera would be immediately harmful, the gail blidder is left untouched.

In the presence of a lesion inevitably fatal as inoperable carcinoma of the gall bladder, etc the stones are not removed, as the operation would only add to the immediate discomfort of the patient with

no hope of any permanent good

In conclusion, he states some of the facts worthy of special attention as follows:

(1) Gallstones give rise to symptoms in a much larger proportion of cases than is commonly supposed (2) Many cases heretolore diagnosticated and treated as "chronic indigestion" and other vague stomach disorders are

in reality cases of cholcithiasis (3) Gallstones are not necessarily innocuous when they are producing no symptoms, but may produce fatal lessons while their presence is unsuspected (4) Unless contra-undicated, the gall bladder as well as the appendix should be examined in all cases of erchoromy, and father than the contract of the contract of the contract of the contract conduction is favorable exercise conduction is favorable.

Gerster Unsuccessful Surgery in Disorders of the Gall-Ducts, Together with a Consideration of Naunya's Cholangerits. Surg., Gyncc & Obst 1912, xv, 572 By Surg., Gyncc & Obst

In this article the author explains that by normal bactericholia is meant the presence of microorganisms in the bile of the duodenal portion of the common bile duct while, in contrast to this bacteria infection of the bile consists in the dangerous accumulation of organisms following relative or absolute stagnation in the bile passages

The infection may either be of enterogenous origin (B coli) or of hæmatogenous origin (as in

typhoid pneumonia severe sepsis etc)

Attacks of paroxy smal pain, fever, jaundice, and sweling of the her and evidences of the cholarges sweling of the hera and evidences of the cholarges (inflammatory swelling of the basal membrane and epithelial lajer of the smallest bid ducts) present not of impaction of stone as proven by those cases with the above so pintons in which inflammation to not no stones were found at operation or autopsy. In other words, the chincal sy imports are the same whether or not stones are present. "Everything which relatively or absolutely obstructs the explosion of bile will cause persistence of cholangestis and of biliary distrutances."

Important intrinsic causes of relapse are (a) Stricture or kinking of the common duct, (b) the

leaving behind of undetected stones

Palpation of the unopened common duct is in advisable because of the possible displacement of stones into the hepatic duct. The common duct should first be opened and drained, palpation then is easier and more rehable, and dislodgment of stones toward the liver is less apt to occur.

Gerster reports five cases of relapse of chole lithiasis in which cholecystectom, had previously been performed, in all five the common duct was

easily exposed at the second operation

The author believes that a damaged gall bladder not only is of no use as a guide to the common duct, but that "the presence of an infected gall-bladder sull produce close, extensive, and very troublesome adhesions, which do not just to blant dissection but require the perilous use of sharp edged instruments" for exposure of the common duct

As regards treatment "having once acquired the conviction that the fundamental factor of bihary cohe and hepatic fever is infection of the bile, causing inflammation of the walls of the bile duct, then incision, drainage, and irrigation may be accepted as necessary steps of a rational treatment"

of the common duct

The conclusions reached are as follows I Lacry dilated common duct should be prened and drained 2 Palpation should follow, not precede, incision

An inflamed, thickened, adherent, or shrunken gall bladder should be removed 4 All cicatricial deposits in the gall bladder or in

the cystic duct justify removal of the gall bladder s. The presence of many small stones, even though the cystic duct is pitulous, indicates that

the gall bladder should be removed 6 The presence of a damaged gall bladder is not an aid, but an impediment to exposure of the com-

mon duct 7 Absence of the gall bladder does not constitute an important adverse factor in the subsequent exposure of the common duct

Such: Stenosis of the Bile Ducts in the Newborn (Fin Beitrag zur Frage der Gallengangstenose beim Neugeborenen) Monatsche f Kinderh . 1912 Rt 204 fly Surg Gynec & Obst

Suga reports a case of stenosis of the bile ducts in a child who was brought to the clinic for treatment of umbilical hemorrhage when two weeks old. It had no icterus at that time. The child died with symptoms of hamorrhagic diathesis when three weeks old Autorsy showed suffusions of the skin the umbilicus and pleura ecchymosis of the thymus the testes engardium and the mucosa of the digestive tract, with severe icterus of the liver as a result of stenosis of the ductus hepaticus and its two main branches The stenosis was of inflammators origin and the resulting granulating tissue intiltrated main ly the outer layers of the large bile ducts. It was rich in eosinophiles and plasma cells the walls of the macroscopically unchanged ductus choledochus were permeated by these cells. The gall bladder, however showed no such changes and only certain macerated spots. The same process was found to a slighter degree in the liver being almost exclusively around the head of the panereas. There was no epithelium in the ductus hepaticus and only remnants in the ductus choledochus but it was found everywhere in the bile ducts of the liver

The stenosed parts had been frequently sounded and this may explain the absence of epithelium but it must be admitted that it may have resulted from the inflammatory process. In this case we have a cholangeitis and pericholangeitis while the portal vein, the arteries of the liver and the vena umbilicalis were free from lesions Spirochetes or bacteria were not found There were no specific symptoms and nothing in the histological findings to allow a diagnosis of lucs I S TALBOT, JR

Upcott Tumors of the Ampulla of Vater. den Surg Phila 1912 hi 710 By Surg , Gynec & Obst

Two cases of tumors occurring in the ampulla of Vater are reported Both were in men aged 63 and

65 respectively, and in each the symptoms were similar, i.e. gradual appearance of jaundice which persisted, absence of pain, marked loss of weight. enlargement of the liver, and a distended and easily painable gall bladder

In both cases the tumor was discovered upon opening the abdomen, as a hard irregular nodule. situated upon the posterior surface of the duode

After mobilizing the duodenum by incising the peritoneum upon its outer side, it was drawn forward and opened by a transverse incision, and the nodule pushed forward into the would

In the first case there was no attempt made to remove the growth and a palliative operation of cholecystduodenostomy was performed, this relieved the condition for about one year, when obstruction of the pylorus ensued necessitating a posterior gastro-enterostomy, subsequently the symptoms of pancreatic insufficiency increased and the patient died twenty months after the primary operation

In the second case the greatly distended gallbladder was opened and six stones removed from the cystic duct through a transverse incision in the duodenum the mucous membrane around the tumor was incised and the latter was then drawn forward and cut away

is the common duct was divided, there was an escape of turbid mucus, and a small unfaceted stone was removed from its upper end

The lower end of the common duct was sutured to the mucous membrane of the intestine. As the cut end of the pancreatic duct could not be found. the lower portion of the wound in the intestine was not closed

The transverse opening in the duodenum was sutured the gall bladder drained and the abdomen closed The microscopic examination showed the growth to be a columnar celled adenocarcinoma

From the examination of the urine and faces in the first case it was thought that there was a partial obstruction to the bile entering the intestine and also an interference with the function of the pancre as the latter might be produced either by malig nant disease or by cirrhosis of the pancreas

Upcott states that an exact diagnosis will rarely be made, the commoner cause of biliary obstruc tion and chronic inflammation of the pancreas are ant to be associated with pancreatic insufficiency

He also points out that the duct of Santorina may open separately into the duodenum above the ampulla, and in this way drain the duct of Wirsung

He suggests that it may be wise to relieve the condition of jaundice by one of the palliative operations - a cholecystostomy, a cholecystenterostomy, or by a choledocho enterostomy - and leave the more radical operation of removal of the growth

until a later date The radical operation may be done by a circular resection of that part of the duodenum followed by

an anastomosis or a closure of the divided ends of the

intestine and a gastro-enterostomy with implanta tion of the ducts into the intestine or a cystenterostomy

The simpler operation is advised for most cases of removal through the transverse incision in the duodenum which was made use of in his second case D I DESPARD

Chiarugi Pancreatic Steatonecrosis in Acute Traumatic Pancreatitis (Steatonécrose pancre atique en pancréatite aigue traumatique) La

Clin Ch rurgica 1912 Oct 1853 By Journal de Chirutyie A patient 35 years old was struck on his abdomen by a heavy barrel There were immediate symp toms of severe abdominal injury. On succeeding days there was present a loss of appetite with nausea at night slight elevation of temperature sensition of cold in the epigastric region and lumbar pain At the end of a month the patient appeared cured and resumed work but experienced a sensation of extreme lassitude and noticeable loss in weight the weight falling from 65 to 56 kilos Twelve months after the accident the patient without any apprect able cause had an attack of cohe meteorism pain in the periumbilical and right hypochondriac region This attack subsided after purgation and evacuation and the weight continued to decrease to 46 kilos Two months later there was intense pain in the epigastric region with vomiting cold sweats and fever Three months later the patient's pulse was very weak had cold sweats and peripheral cyanosis Respiration was frequent and of the superior costal type. The abdomen was distended especially in its upper portions the volume of which contrasted with the marked emaciation of the limbs This area continued immobile during respiration and transmitted the pulsations of the aorta, the parietal muscles were contracted and there was extreme tenderness in the epigastric region 2 or 1 cm above the umbilious upon the median line There was an area of dullness between the stomach and the colon extending from the left border of the

The author basing his opinion especially upon the history and upon the integrity of all the abdom inal viscera but the pancreas made a diagnosis of traumatic pancreatitis with steatonecrosis. He deemed it urgent to intervene Spinal anæsthesia a right paramedian supraumbilical incision. The parietal and visceral peritoneum were opaque and markedly congested. One could see and palpate a fortal head sized tumor immediately below the great curvature of the stomach in the pyloric region

sternum to the right mammillary line

This slightly fluctuating tumor was covered by the gastrocolic ligament and the transverse colon, which were adherent to it. The adhesions were separated the gastrocolic bigament incised and the head and body of the pancreas exposed formed a necrotic brownish friable mass necrotic mass was gently evacuated and owing to the fear of hemorrhage capillary draininge was used The wound was left widely open ing the operation the temperature had the suppurative type. Necrotic fragments were eliminated as well as an abundant quantity of limpid, gluey alkaline fluid, which had the same action-carbo hydrates albuminoids and fits-as pancreatic juice At the end of three months there was spontaneous closure of the pancreatic fistula. The patient regained in weight weighing now more than ever -70 kg 6 Histological examination of the frag ments collected at the time of operation and in the course of elimination of the necrotic mass confirmed the diagnosis PIERRA I REDET

Mayesima The Value of the Cammidge Reaction in Diseases of the Pancreas (Ueber den Wert und das Wesen der Cammidgeschen Reaction bei Mitt a d Gren-geb d Pancreaserkrimannan.

Med u Chir 1912 xxx 403

By Suri, Gynec & Obst

The author reports the following results from experiments with the Cammidge reaction uring of rabbits and dogs which had been previously insected with from 5 to 15 cc of 10 per cent camphorated oil solution and into the stomachs of which s cc of a 20 per cent choral hydrate solution had been placed was treated with tribasic acetate of lead as indicated by Cammidge the clear filtrate of this showed a strong Cammidge reaction Then 25 gm of pure glucurovanillin acid barium were dissolved in 100 cc distilled water and mixed with tribasic acetate of lead and the filtrate of this freed from superfluous lead by addition of natrium sulphate. this solution was then heated with acetic acid of hydrazin of phenol and gave a yellow crystallinic sediment identical with that of Cammidge Pure glucuron acid 25 gm was dissolved in 40 cc normal urine which did not give Cammidge reaction, the urine treated in the same way as above gave the typical Cammidge reaction A solution of glucuron acid potash in water gave also a beautiful Cammidge The latter is of no diagnostic value in diseases of the pancreas The crystals gained in the experiments were not always of the same chemico physical quality the matrix for the orazon crystals can therefore not be of uniform nature

SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS, ETC. Barrie Chronic (Non-Suppurative) Hæmorrhagic Osteomyelitis Post-Graduate, 1912, xxvv. By Surg , Gynec & Obst

The author describes a lesion occurring in the ends of the long bones, variously designated as (a) medullary giant cell sarcoma, (6) my clogenous giant cell sarcoma, (c) my cloma and (d) medullary grant cell tumor (Bloodgood) The writer contends that these names are misnomers in that the condition is the product of a chronic inflammatory process and not a true neoplasm. He prefers the name chronic (non-suppurative) hæmorrhagic osteomyclitis

The process is supposed to begin as a result of trauma causing bruising of the capillaries in the bone with transudation and hamorrhage, followed by destruction of the bony canals from pressure necrosis A low grade irritation or inflammation follows which results in excessive production of vascular granulation tissue springing from the reticulum of the bone marrow

The point upon which the diagnosis of malignant growth has been made is the presence in this tissue. which is infiltrated with small round and epithelioid cells of numerous giant cells These the author regards not as tumor cells but merely as foreign body grant cells or scavengers, whose function it is to remove the debris produced by the low grade inflammatory condition in the bone

The gross appearance of the fresh specimen is said to be typical - very vascular, deep red granulation tissue without supporting fibrous structure The cut surface has a velvety appearance, oozes freely, and shows numerous small hyaline thrombi and recent blood clots in the smooth somewhat myxomatous mass. In the later stages the tissue may become converted into fibrous tissue of grayish annearance, with or without cystic areas giving the appearance of so-called ostitis fibrosa

The X ray shows the lesson clearly circumscribed though somewhat irregular in outline, indicating total bony destruction of the cancellous tissue In diagnosis important points are history of trauma chronicity (months or years), tenderness from onset and pain usually not marked until noticeable swell ing, age (childhood or young adult life) Operative treatment should be limited to simple removal with the curette of the excessive granulation tissue and inflammatory débris, followed by transplantation of bone to fill the cavity, as advised by Bloodgood or firm packing Amputation without real evidence of sarcomatous degeneration is uncalled for F I GAENSLEN

Elmslie Fibrous and Fibro-Cystic Osteltis Brit II J 1912, November, 1367 By Surg , Gynec & Obst

The author states that too often bone cysts are mistaken for sarcomata and amputation performed

He mentions several varieties (t) Localized fibrous osteitis, (2) localized fibrocystic osteitis, (3) generalized fibrocystic osteitis (von Recklinghausen's disease), (4) cystic osteitis As far as can be ascertained, the condition always starts in childhood or adolescence Cysts usually occur in the femur, humerus tibia, and fibula, arising near the epi physeal lines They most often produce no symp toms until spontaneous fracture occurs, being painless in their course Enlargement of the bone may lead to medical advice being sought. Beyond the opinion that fibrous osteitis is an inflammatory lesion nothing is known of its pathology. The important feature in treatment is that it must be strictly conservative - curettage, crushing of the cyst wall, or resection of the affected portion of the bone are the measures usually advocated Elms he reports five cases - three in the humerus, all males, 7, 9 and 14 years, one in the femur in an adult female (in this case a history dating from the age of 15 was obtained) and one case in the tibia. in a boy of to M S HENDERSON

Morton Arthritis Proc Roy Soc W, 1912, vi. 1
By Surg Gynec & Obst

This article is written chiefly with the idea of differentiating between rheumatoid arthritis and arthritis deformans The former the author regards as an intoxication caused by a toxin produced by bacteria. In distinguishing the conditions he notes that osteophytes are rare in rheumatoid arthritis and when present occur at the extreme end of the long bones where there is an absence of the articular cartilage. The production of bone is of very elementary character, and we therefore have in rheumatoid arthritis a disease which is characterized essentially by the destruction of joint tissues with the production of osteophytes of

secondary importance In osteo arthritis (arthritis deformans) we have a condition in which the joint spaces are narrowed or partially so and the spaces between the articular ends are more or less even while the formation of osteophytes is quite marked. A distinction between these two conditions can usually be made very well by the use of the X ray As to electrical treatment of this condition. Morton thinks that ionization offers the best chances for benefit C G GRULLE

Ely. The Etiology of Chronic Non-Tuberculous Arthritis, the Miscalled Arthritis Defor-

mans. 4m J Orthop Surg , 1912, 171
By Surg , Gynec & Obst

Ely reviews the evidence for and against the infectious theory of the cause of the various types of so called rheumatoid arthritis He calls attention to the three theories most prominently advanced to account for these joint lesions, viz (1) That they are due to some derangement of the central pervous system which manifests itself through the trophic

nerves of the joint, (2) that they are due to faulty metabolism (autointoxication), (3) that they are distinctly infectious

He points out as evidence in favor of the last theory that "every bone and joint disease whose exact cause we know is infectious" "Numerous observers have isolated pure cultures of micro organisms from these chronically diseased joints, and in some instances have produced the disease by impetion into the joints of animals"

He admits that the organisms found by one observer appear to differ from those found by others, but says "it is perhaps better for the present to believe that a number of different organisms may be responsible for these diseases especially as this

agrees with chincal evidence."
Regarding the nervous theory he says, "As far as we can ascertain, no proof exists that a lesion of the central nervous system can cause changes in the body tissues comparable to those found in the

joints in chronic arthrits."

In discussing Charrot's joints, which are advanced by some writers in support of the nerve theory, he says, "When two lesions are sometimes found together and sometimes separately, we conclude that one is not caused by the other but that both are caused by something else", and 'here we are using for illustration a joint lesion about whose nature we are quite ignorant, and for whose occur rence no satisfactory explanation has ever been adduced. Let us rather regard a Charcot joint as a late manifestation of the towns of syphilis upon

the bone marrow, as we regard tabes as a manifestation of it upon the spinal cord."

He argues that degenerations are the result of infections, that degeneration in one tissue often follows inflammation in others and that the primary inflammation is infectious.

Attention is called to the fact that many of these chronic joint changes are associated with infections elsewhere, as in the tonsils, mouth, ear, or nose and that when the infection is removed the joint disease store.

The analogy existing bewteen chronic non tuber culous joints and the tuberculous ones is pointed out. The writer quotes from a number of other authors and refers to many published articles in support of his opinion that these vanous forms of chronic joint disease will eventually be found to be infectious.

J. Powris.

Lapointe: Etiology and Treatment of Traumatic Myosteomata (Pathogéne et traitement des myostéomes traumatiques) Res de Chir , xlvm, Nov 1912, 657 By Journal de Chirurgie

Lapointe reports a case of myosteoma of the crural muscle in a patient 21 years of age, operated upon and cured There are two hypotheses as to the origin of these new formations The first looks upon the periosteum as being directly or indirectly the source of ossification The second, considers the process an ossifying myositis The author does

not accept the theory of the irritative hypertrophy of aberrant sesamoid bones nor does he accept the theory of latent embryonal germs Therefore, if ossifying myositis is true for the free and discontinued myosteomata, it must be also true of adherent myosteoma Adhesion of itself does not constitute a sufficient argument to establish a different origin for new formations that are absolutely identical in structure. From these myostcomata must be separated traumatic exostoses, exclusively and truly periosteal in formation but which outside of contiguity have no relation with neighboring muscles You cannot say either that these so called chronic myosteomata are due to slight irritation of partially or completely detached periosteal flaps Neither are myosteomata due to escape into the muscles through a periosteal fissure of cells of the internal layers of the periosteum. This theory does not rest upon any observed facts nor upon the normal anatomy of the osteomuscular continuity at the site of the insertions Recurrence of myosteomata do not occur always at the point of pedicle implanta-In fact, it seems that these myosteomata have a matrix of muscle connective tissue, and the skeleton attachment shows only that the traumatic etiological factors have attacked at the same time the fleshy body of the muscle and its insertions

The prophylaxis of these tumors is uncertain because cases which have been chosen to show the disorable and undayorable influence of massage have been cases which were comparable. The efficacy of conservative tretiment is more apparent than real, and is explained by the spontaneous regression of the ossiving processes, which permit, with time sufficient functional recovery, especially in myos teomats which are not peristicular.

Extripation is the treatment of choice, but it should not be too early Six or eight weeks of expectant treatment is a fair average. When to the myosteoma is added an ossifying periarthritis and a persisting and grave disability results and orthopical resection should be considered.

I OKINCZYC

FRACTURES AND DISLOCATIONS

Symposium on Treatment of Simple Fractures
Bru M J, 1912, Nov 1505
By Surg Gynec & Obst

In the report of the committee of the British Media Accordation an attempt is made to compare the results in operative and non operative cases. Thesististis relative to the non operative caratiment of fractures of the shafts of the long bones in children under 15, with the exception of fractures of both bones of the forearm, showas a rule a high percentage of good results. The operative results in children expressed in percentages are approximately the same as the operative results are considered to the control of the control

treatment as age advances, that is, the older the patient the worse the result by the non-operative method In nearly all age groups operative cases show a higher percentage of good results than non-operative cases Operative treatment should not be regarded as a method to be employed in consequence of the failure of non-operative measures In order to secure the most satisfactory results from the operative treatment it should be resorted to as soon after the accident as practicable. Operative measures are to be undertaken only by those skilled in this line of treatment. A considerable proportion of failures is due to infection. The mortality due directly to the operative measures is so small it can not be urged as a contraindication. As a basis for the report, nearly 1000 cases were examined personally by two or more members of the committee The number of operative cases is proportionately small there being 208 cases examined. Examinations of patients in the chinics of A Lambotte W Arbuthnot Lane Lucas Championniere Steinmann Burden hauer etc were made thus representing different schools of treatment M S HENDERSON

Salmon Fractures of the Upper Extremity of the Tibia. irch f klin Chir, 1912 xcix 965 By Surg , Gynec & Obst

The author reports 7 cases of fracture of the upper extremity of the tibia. Twice the fractures were transverse twice oblique twice longitudinal and once a fissured fracture

The transverse fractures most frequently are consequent upon direct traumatism although they may result from indirect violence in the latter case the upper fragment is flexed and the lower is in The upper fragment frequently is extension fissured Longitudinal fractures generally are produced by an indirect trauma The separation of the upper eniphysis of the tibia is observed exclusive ly in young subjects. It is associated with a

permanent dislocation of the knee joint reviewing the etiology and the prognosis of fractures of the upper extremity of the tibia, the author con siders their treatment. In those cases when the reduction is difficult be favors immobilization of the fragments in a plaster cast, with the leg flexed toward the thigh sage is advocated The average time required for cure is from six to eight weeks E S TALBOT, IR

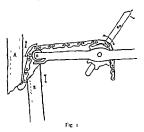
Gerster The Reduction of the Fragments in Fractures of the Long Bones Ann Sure Phila , 1912 lv1 760 By Surg , Gynec & Obet

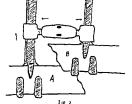
Two sets of instruments are described, both were designed to reduce the overriding of the bony frag ments in fractures of the long bones

The chief instrument of the first set consists in a tractor (Fig. 1) The point of a book at the end of a piece of bicycle chain is inserted into the medulla of one fragment, the chain leads over the end of the other fragment and over an idler wheel set in the end of a steel bar there the chain changes its direction at a right angle), back to and over a sprocket As the chain tightens by rotating the sprocket one fragment is pulled up as the other fragment is pushed down until finally both come into line. Although it has been used with complete success this method has the following disadvan tages (1) Tractor and fragments must constantly he in the same plane (2) the narrow hook often cuts through the bone like a cranial rongeur (a) after reduction the instrument lies wedged between the fractured ends and its proper removal is difficult

The second set of instruments consists of two strongly made Bowman clamps and a turnbuckle (Fig. 2) A Bowman clamp is applied to each bony fragment and the turnbuckle engages the shafts of the clamps, as the barrel of the turnbuckle is rotated the clamps and the bones to which they are fastened

are forced apart





The turnbuckle and clamp method has none of the shash antages of the tractor described about The second method can be of most effective use in plating communited fractures – where the tractor cannot be used. The only danger attending the turnbuckle method is the possible employment of too great force in old fractures where the soft parts have contracted a great deal.

Knox and Salmond: An Analysis of Injuries to the Bones at the Wrist, Based on the Radiographic Examination of 214 Cases Lance 1912, II, 1213 By Surg, Gynec & Obst

This paper is based on a careful examination and analysis of 214 consecutive cases at a general hospital showing mjury to the bones at the write Each case was screened in several directions, and radiographed in at least two, antero posteroidy and laterally, many of them steroscopically, and all doubtful cases were excluded. For uniformity of results, the cases have been divided into two series (1) that in which the lower epiphyses of the radius and ulan have joined their respective shafts, and (2) that in which these epiphyses have not yet united. Of the 214 consecutive cases analysed. The first corresponds roughly with persons above the age of 20 and the second with persons above the age of 20 and the second with persons above the age of 20 and the second with persons below that age

I -CASES WITH UNITED EPITHYSES

(a) The radius This shows injury in 03 per cent of the total number of cases. The radius alone is injured in 41 per cent of the total number of cases injured in 41 per cent of the total number of cases. The radius is injured along with the styloid process of the ulaa in 42 per cent of the total number of cases, as common as an injury to the radius alone. The radius is damaged together with the shaft and will be noticed how much more frequently the radius is injured with the styloid of the ulian than with the shaft and it is interesting to compare this with the corresponding injury in the ununted epiphyses series.

(b) The ulma Some part of this is injured in a per cent of the total number of criese, about one half the frequency of the radius I njury to the styloid process occurs in a fop er cent of the total number of cases, so that by far the commonest injury to this hone in this series is here. The shaft is injured in only 7 per cent of the total number of cases, the njury in all cases occurring within two inches of the lower end, and in the vast majority of cases at the styloid process.

(c) The carpal bones Injury is present in one or more of these in 13 per cent of the total num ber of cases In none is the carpus injured with the ulna only The scaphoid is the one most frequently damaged—no less than 13 times out of 19

(d) The melacarpal bones Show injury in about 1 per cent of the total number of cases

II CASES WHERE THE EPIPHYSES HAVE NOT UNITED (a) The radius Injury is present in 80 per cent of the total number of cases Damage to the shaft shows in 58 per cent of the total number of cases and to the epiphysis in 38 per cent The shaft is injured alone in 17 per cent and the epiphysis alone in 20 The radius and ulna are damaged in 33 per cent of the total number of cases The radius and styloid process of the ulna are damaged in 11 per cent. In the shaft, by far the most frequent is transverse, 80 per cent, while the most frequent injury to the epiphysis is a separation, 79 per cent Forty two per cent of the injuries are at the epiphysis, while the remainder are in the diaphysis, generally about 1 inch and practically all within 2 inches of the articular end In the shaft 78 per cent are backward 9 per cent forward, and 13 per cent show none, while at the epiphysis 74 per cent are backward and 17 per cent show none

(6) The ulma layury occurs to this in 50 per cent of the total number of cases at the shaft in 36 per cent, at the epiphysis in 8 per cent, and at the stylond process in 6 per cent. The shaft shows 86 per cent of transverse fractures. The shaft shows 86 per cent of transverse fractures. The shaft shows 80 per cent, and the remainder so per cent, and the repulsival in 12 per cent, and the remainder so per cent, and the remainder so per cent, and the remainder so per cent, and the shaft shows 16 per cent and the shaft shows 16 per cent and the fragment is backward in 63 per cent, forward in 16 per cent and showing none in 21 per cent.

(c) The carpal bones Only 3 per cent of the total number of cases no doubt due to the larger amount of cartilage in early life giving better protection to the bony foci in the carpus In none of the cases do the bases of the metacarpal bones show damage in this series.

From the foregoing analysis it is seen that the most common injury at the wrist in cases where the epiphyses have joined their shafts is a transverse fracture one half inch above the lower end of the radial bone the lower fragment being displaced backward and with or without a fracture of the styling process of the ulina, while in cases where the styling process of the ulina, while in cases where the as a transverse fracture about one inch above the lower ends of both forearm bones and with both lower transferrist subplicted buckward

DONALD C BALFOLR

Pegger Diagnosis of Fracture of the Lesser Trochanter (Zur Diagnose der isolierten Abriss fraktur des Trochanter Minor) Bettir z klin Chir, 1912, lxxxx 138 By Surg, Gynec & Obst

Pegger discusses the symptoms of this uncommon injury in connection with the report of a case It is interesting to know that this form of injury was known to Galen So far 15 cases have been described in the literature Localized pressure pain and also pressure in this case. While the print is diffused during the first a hours, it becomes localized for that It may be elected by pressure over the after that It may be elected by pressure over the

great trochanter, may be found posteriorly over the inner portion of the gluteo femoral fold, or anteriorly in the iliopectineal fossa swelling over the hip and the upper part of the thigh occurs, but it is not constant and is of little importance Ecchymoses in the region of the lesser trochanter have been observed, and were present in Pegger's case Outward rotation of the limb is present in a good many cases, and much stress is laid upon this by some observers. Julliard explains this in the following manner. The miury acts upon all the neighboring muscles by the pain it produces. This pain lessens or even suppresses their tonus reflexedly. Thus the muscles hold the limb no longer in its normal position. It is everted because its center of gravity is outside of its axis (The X-ray picture should not be taken in the position of eversion, but in slight inversion and ad duction, because the fracture may not show in the former position) Limitation of motion of a definite type is the most important diagnostic sign

ileopsoas muscle does not functionate In Pegger's case all passive motions were painful during the first few days. The patient could lift the extremity to a very limited degree only when the leg was flexed upon the knee During this maneuver the extremity was held slightly in abduction and everted The symptom described by Ludloff became positive twelve days after the accident. This consists in inability to elevate the extremity in a sitting posture while the psoas muscle is tense This sign certainly is of diagnostic value if present, but unfortunately it appears rather late as is also stated by other authors Pegger's patient could not stand upon the injured extremity alone, even after he was able to walk about without aid. The fracture is caused by a sudden pull of the paoas muscle during a protective movement

The following points deserve attention for the diagnosis Circumscribed pain, together with the history of a typical accident Ecchymoses over the lesser trochanter are of importance if present Outward rotation is not a universal symptom it was not present in two of the collected cases, and in the author's own case it persisted after the patient was up and walking about The symptom described by Pochhammer - that the patient is unable to flex the thigh upon the pelvis with the knee extended, while he can do so with the knee flexed, with simultaneous outward rotation and abduction respectively and inward rotation and adduction was seen by Pegger during the first few days Attention should be paid to the flaccidity of the psoas tendon during an attempt at contraction It was noticeable on the first day in Pegger's case

The treatment was conservative consolidation followed, despite marked diastasis of the fragments Function was complete after four months The patient was able to use the leg in every way, although the rotation was slow to be

restored E C RIEBEL Walton; Injuty of the Semilunar Cartilages Proc Roy Soc M , 1912, vi, 1 By Surg , Gynec & Obst

This article is prefaced by an exhaustive consideration of the anatomical points involved, from which the writer draws the following conclusions

There is a tendency to injury or displacement of the semilunar cartilages

2 This tendency is brought about by full extension, and is increased with powerful or excessive

3 The tendency is much more marked at the anterior end of the internal cartilage, because (a) being narrower, this portion of the cartilage more readily undergoes changes due to its own elasticity. (b) owing to the screw action in full extension, the compression force between the femur and tibia is much more marked here than elsewhere, (c) the anterior end of the cartilage is unprotected and loosely attached

4 Either fractures or displacements of this portion of the cartilage may occur, and both are

easily explainable
5 There is no evidence of any tendency to fracture or displacement with any movement, provided the roint is not fully extended

In other words, one would expect lesions of the anterior end of the internal semilunar cartilage to be much more common and to be the result of

forcible or excessive extension

As to the location of the lesion, it is much more common in the anterior part of the internal semi lunar cartilage. The lesion consists primarily of a fracture of the under surface of the cartilage, which may be longitudinal or transverse and usually is directed obliquely Of the 77 cases in this report, in 14 the anterior end was torn from its attachment This was the most common form of lesion Sometimes the cartilage is separated in the middle and attached only by the anterior and posterior extremities. In some rare cases the attachment is only by the posterior horn

According to Walton, the only mechanism that can account for this condition is the forcible extension of the leg on the thigh, which terminates with an outward rotation of the tibia on the femur

In summing up his cases he went into the etiology of this condition, and in 65 there was a definite history 25 of these cases were caused by football, in 2 there was a distinct history of having kicked at the ball and missed it, in 21, while running, the foot slipped on the ground and was forcibly everted This could only happen when the leg was extended In 2 cases a second player fell across the outstretched knee, hyperextending it. Of those apart from football, 15 arose from the foot twisting outward while walking over rough ground, and 5 while running Various other injuries accounted for the other cases, in all of which, however, there was a distinct history of the extension of the limb In 78 cases, only 8 were females, that is, a ratio of 8 males to I female

He concludes his article with the following

summaty 1 The lesions present are identical in nature and position with those which can be artificially produced

by hyperextension and its terminal screw action 2 The history when carefully investigated gives evidence of hyperextension as a cause

3 The etiological factors are in favor of the same C G GRILLI VICW

SURGERY OF THE BONES, JOINTS, ETC. Roberts. Recent Advances in Plastic Surgers of the Bones J 4m M Ass, 1912 ht, 1750 By Sueg , Gynec & Obst

Roberts reviews the history of plastic surgery since its revival in the first half of the nineteenth century by Diesenbach in Europe and Mutter in America. The Fgyptian papyrus named after I bers and attributed to 1500 n C is said to mention thino plasty performed by flaps Wolfe of Scotland show ed that a free flap or skin graft could be used to correct ectropion. It is now known that teeth tendon, blood vessels fascia cartilize nerve and bone may be transplanted with reasonable certainty of a preserved vitabity. The essential is that septis infection be absent or mild until the flap or graft has time to become physiologically united with the surrounding living tissue. Office of Lyons should be given greatest honor in the field of osteoplastic surgery Carrel has found that aseptic tissue pre served by cold storage may be successfully used for grafts weeks after removal from the parent body When a piece of bone is transplanted its raw sur face should be maintained in contact with living bone by nailing or suturing. While new oseous tissue is being deposited the old bony tissue in the graft is probably being absorbed. He illustrates other conditions amenable to osteoplastic surgery including pasal and sinus deformities injuries ankylosis and osteoplastic fixation of the vertebral column for tubercular spondylitis L G DWAY

Neff: Arthroplasty Surg , Gynec & Obit 1912, 21 529

By Sure Gymec & Obst Neff carefully reviews the various methods that have been used experimentally and at operation to produce permanent and useful motion in ankylosed joints, and deduces two conclusions therefrom viz heet that a pad of connective tissue must be present between the bony ends before the burst or new joint, can be formed and second that the simplest and most direct method of accomplishing this must be the method of choice Obviously the simplest and most direct method is to interpose joint capsule or a flap of fascia, either pedunculated or free, for the ideal operation of arthroplasty Any other method is indirect and to be used only when the direct method is not applicable. Indications and contraindications for the operation of arthroplasty are carefully discussed

The author considers from his own experience and the careful study of the literature that the

elbow joint lends itself most favorably to the successful arthroplastic operation. The temporomaxillary was the first joint in which the operation for arthroplasty was performed and, next to the clow the one in which the best results have been secuted. Owing to the anatomy of this joint and the surrounding structures the operation is sometimes different from that performed upon other joints in that the new joint must sometimes be made in an abnormal situation

The hip joint is third in the list from the stand point of successful arthroplasty. There are present here two of the essentials for success, viz maximum mobility with nearly a minimum of necessary articular surface. Even though called upon to bear the weight of the bods in standing and walking, and though held in position only by a comparatively thin capsule and slight restraining ligaments, yet because the head of the femur fits accurately into the acetabular cavity and can generally be preserved in this relationship which is the ideal operation, the hip joint lends itself quite favorably to the arthro plastic operation

The knee joint is considered the most unsatis factors for arthroplastic operation. The reasons for this are first because the joint presents extensive articular surfaces which he flat upon one another without any bony conformation to keep them together and second because the entire weight of the body is thrown upon the joints in standing and walking and because of these two factors we have the main cause of failure in the tendency to forma tion of dense thick and unvielding capsular and percapsular structures to maintain the stability of the joint

The shoulder joint is rarely operated upon for ankylosis the movability of the scapula obvirting the necessity for operation a great deal. Theoretical ly for the same reasons that the hip joint is favorable the shoulder joint should also be but owing to the readiness with which muscles around the joint become paralysed and atrophic the contrary is quite the rule

It is rarely indicated to perform arthroplastic operations upon the wrist or radio ulnar joints

In the surgical cure of bunions arthroplastic operations upon the metatarsophalangeal joint have been performed with uniformly good results. Also a few have been done upon the interphalangeal joints with success

The article is concluded with case reports, accompanied by splendid photographs and X ray pictures of cases in which successful arthroplastic operations upon the knee and elbow were performed by the author FLOYD B RILEY

Roberts An Operation for the Reconstruction of Impaired Hip and Shoulder Joints. Post-Graduate 1912, xxvu 1043 By Surg Gynec & Obst

The author presents an operation for the betterment of certain hip conditions which have heretofore been more or less hopeless of telef. These include unstable joints due to destruction of the head and neck of the femur ununited fractures of the neck, and congenital dislocations where malformation of the head and neck prevent maintenance of reduction. Roberts also believes it will be of service in early tubercular disease of the head and in cured cases where ank loss has residied and that it may describe the service of the head of the head of the hip and similar conditions in the abounder where the head of the humerus is moved.

The procedure consists of grafting the head neck and so much of the body of the astragalus as may be necessary onto the inner aspect of the upper end of the femur or a stump of the femoral neck. The graft is held in place by a bolt having on its distal end a wood serew thread to engage the transplanted bone and on the other extremity a machine thread for a thumb screw. This is passed from the outer side of the trochanter through the shaft and neck piercing the graft The thumb screw is then turned down bringing the fresh surfaces of the astragalus and femur into close apposition means of a cylindrical washer or sleeve the thumb screw remains outside the skin wound and the bolt can readily be removed at the end of two weeks

Several cases are reported some of which fuled from various causes but two were successful proing the fevsibility of the operation under proper ing the fevsibility of the operation under proper conditions. In one of these the gridt was cut down upon at the end of twelve weeks. It was found firm by adherent to the femur and a bole drilded into it are. The other showed a stable joint with considerable motion at the end of 20 weeks.

The astragalar grafts are preferably obtained from patients needing operations for paralytic feet but it is pointed out that the good results following astragalectomy render autotrin-plantation justifiable in case of necessity.

Chiari: Preliminary Note on the Transplantation of Bone Minerals Munchen med Il chuschr 1912 hx Nov By Surg., Gynec & Obst

Chiari reports the first results of his study of the function of bone marrow. This report concerns the transplantation of bone marrow which he has undertaken with the idea of facilitating the study of its rôle in hematopoiesis and in osteogenesis The experiments were performed upon rabbits At first he obtained the marrow from the manu brium and transplanted it into cellular tissue This yielded unsatisfactory results At present he trepans the femur and removes the marrow with a spoon The marrow is then transplanted into the spleen The spleme tissue, having a hæmato poietic rôle of its own, appears to be the most suit able tissue for the nutrition of bone marrow has obtained very satisfactory results by this method For two months following transplanta tion the animal is each day subjected to 20 minutes exposure to X-rays of high intensity During

this exposure the splene area is covered with a Load sheld. Chain aims thus to inhibit the bone maroa in all other lessons of the body and to stimulate the hypertrophy of the splene implinations. How much of his success is due to this treatment he is unable to say. At the end of two months the animal was killed and macroscopic examination of the splene showed appreciable growth of the transplanted tissue. Microscopically the transplanted tissue showed the preture of normal bone planted tissue showed the preture of normal bone figures were numerous and the splene of the

Albee Bone Transplantation as a Treatment of Pott's Disease, Clubfoot, and Ununited Fractures Post Graduate 1912, xxx, 999 By Surg Gynec & Obst

This is a report of the use and results of bone transplantation in Pott's disease of the spine as based on 55 successful cases of which 34 were dorsal to lumbir and 2 cervical with ages ranging from 2 to 3,1 years

Albee being convinced of the fact so strongly emphasized in the recent writings and pathologic studies of his and others and borne out by the results he obtained by fixation operations of various acute tuberculous joints without attempting the removal of all tuberculous tissue - that bony fixation of tuberculous joints is an absolute panacea - devised the fixation of the vertebral bodies when infected by tuberculosis by engrafting a portion of bong removed from the crest of the tibia and embedded between the longitudinally split spinous processes thus preventing all motion and relieving the rushing down of the diseased bodies through the superimposed bridge and holding the vertebra involved in hyperextension by the splint action of this bone plate and also by the leverage action of the spinous processes through the lateral facets serving as a fulcrum the bone graft acting under the great mechanical advantage of being pulled upon length wise thus preventing Lyphotic deformity

The ultimate fate of the bone grait whether osteogenetic as maintained by Macewen and others or osteoconductive as claimed by Arhausen Murphy and others is immaterial as the result of bone union is had in either case

In his experimental work in hone grafting in animals. Albee has successfully used hone preserved in salt solution and in Ringuer's solution kept in rold storage for a period of four days and microscopical extinuations of these specimens mule six weeks to six months after show no dead hone, a profuse blood supply to grafts and firm hony union of graft to

Technique of operation Patient in ventral position, spinous processes are reached through a sufficiently long curved incision made to one side, skin flap turned up super- and interspinous ligaments split Spinous processes are split longitudinally in halves to a depth of about 3/c of an inch with a

chisel, making greenstick fractures of the halves always on the same side, leaving the opposite halves intact to preserve leverage after which a hot saline pack is applied to back wound thus prepared until

bone insert is ready

With patient still in ventral position, leg flexed on thigh, sufficient incision along the crest of the tibia is made down to the bone the fascia and subcutance ous tissue are carefully separated from the perios teum of the anterior internal flat surface of the tibia and with a sand bag in the popliteal space and behind the leg a long and thick prism shaped piece of the tibia is removed with a chisel or motor saw this piece being long enough to span the diseased vertebre and include a healthy one above and below. This is placed in its bed between the split spinous processes and held in place by strong kangaroo tendon, drawing together the split supra spinous ligament. The implants have varied from 4 to 712 inches long, 18 to 1/2 inch wide, and 3/4 to inch in thickness The insert should include a portion of the marrow cavity

The corrective force of the implant has varied from simply embedding a straight graft to a re shaping of the graft to somewhat approach the deformity and then to forcibly bend this shaped graft into its bed and fasten its ends into position

The operation being superficial, takes but from 15 to 30 minutes and therefore is accompanied with a minimum shock or hamorrhage and as it is distant from the neural arches there is no danger of en croachment upon the spinal canal by overgrowth of bone or infection and no normal anatomical struc ture or support of the spine is severed or destroyed. but on the contrary taken advantage of Immedi ate mobilization is secured of the diseased vertebrae without disturbing the function of the rest of the spine or interfering with the respiration post operative treatment consists simply of dorsal recumbency for a period of five to twelve weeks and no external supports were used in any of the above cases except in one adult who went back to his work as a carpenter seven weeks after his operation

Results All pain has disappeared in every case no later than the third day and rapid improvement in general condition is striking. Four cases were complicated by complete paraplegia but cleared up m less than six months Every wound has healed by primary union Fifteen months have elansed since early cases were operated on, and post-opera tive & ray findings show union of graft to spinous processes and increased bone proliferation about implant and tips of spines, bone detail of the bodies after several months being clearer There has been no mortality

In cases of congenital clubfoot in children over 3 or 4 years old, where adduction of the front part of the foot predominates, Albee has taken a wedge of bone usually from the upper end of the tibia of the other leg, and engrafted it into the trans versely split haives of the scaphoid with gratifying results. In markedly adducted feet where the

skeleton of the foot is shorter on the inner than on the outer side a somewhat similar wedge of bone graft has been inserted which served to prop the foot in proper position This procedure, with or without the insertion of silk ligaments has been practiced on acquired deformities of a similar nature resulting from infantile paralysis

Albee also offers this bone graft as an ideal treatment for ununited fractures of pseudarthrosis where we have appearing early a marked sclerosis of the ends of the fragments and where freshening the ends of the fragments and the application of the Lane plate has not been trustworthy because of bone sclerosis and lack of osteogenesis, for he thinks the bone graft applied as he describes best supplies an added osteo what is needed above all viz genetic force as well as perfect internal fixation By this procedure he has secured bony union in all of four cases operated upon in one case of which the pseudarthrosis had existed for 101/2 months

ROBERT L LOUIS

Cotte Osteoplastic Diaphyseal Amoutations and Bone Grafts (Amputations ostéo-plastiques diaphy saires et greffes osseuses) Lyon Chir 1912, Nov By Journal de Chirurgie

The various amoutations performed, while in the main satisfactory still leave much work to be de sired as to the ultimate result in certain cases

The author speaks in favor of osteoplastic amputations of the leg He reports one personal case tuberculosis of the instep with sinus formation in a man 30 years of age Circular amputation of the limb was performed with application of an osteoplastic flap taken from the internal surface of the tibia excellent functional result, the patient walls upon his stump without pain. Bier says that non closure of the medullary canal is the principal cause of painful stump occurring after amputations performed by the ordinary methods

The author had the idea of grafting an epiphysis upon the extremity of the divided bones, thus would he secure the double advantage of perfectly obliterating the medullary canal and of obtaining as in disarticulations an osseous epiphyseal stump, the bony lamellæ of which are admirably fitted to dis tribute the body weight He has made one attempt of this nature in a tubercular knee After a thigh amputation he grafted upon the inferior extremity of the divided femur a tibial epiphysis Unfortunately the graft was not tolerated, a large hematoma formed, there was fever and at the end of four days the graft bad to be removed. One failure should not condemn the method. Other similar attempts should be made to establish the value of the proce The author remarks that the extreme con ditions under which one advises an amputation are such as render infrequent the need of such a delicate intervention as epiphyseal grafting upon the end of the divided bone of an amputation stump

CH LENORMANT

Eve: Remarks on the Treatment of Sarcoma of the Long Bones. Lancel, 1912, classin 1355 By Surg , Gynec & Obst

Sarcomata fall, for purposes of treatment, into three groups (1) periosteal sarcomata, (2) central sarcomata composed of round and spindle cells

(a) myelomata

r Persosteal sarcomata The persosteal sarco mata spread locally along the periosteum, endosteal ly through the medulla and also along the muscles attached to the affected bones Extension into the veins is early The author believes that a nationt with periosteal sarcoma of the femur should be given the remote chance afforded by amoutation at the hip joint, and removes the femoral lymphatic glands in the preliminary stage of the operation

2 Central sarcomata composed of round, spindle, or mixed cells Their relative benignity must be ascribed to their being surrounded by a capsule of bone Central tumors of the lower end of the radius and ulna are less malignant than those of other These growths, if well localized, and especially if spindle celled, offer a tempting field for

resection and the employment of the various meth-

ods of osteoplasty 3 Myeloma Although it has long been taught that the true myeloma has a low degree of malignancy, yet it is only in recent years that it has been recognized as possessing at least in some situations, a purely local malignancy. The myelomata of the femur, and especially those of the upper end of the humerus, are sometimes followed by metastasis

The author quotes statistics to prove this This difference in nature depends rather on the seat of the disease than on the structure of the tumor. The nearer the body the greater the ma-

bgnancy, would appear to be true of the myelomata

as well as of the periosteal sarcomata The treatment adopted must depend on the size and extent of the tumor and its locality The fol lowing operations are employed (1) erasion, (2) resection, (a) amoutation. Myelomata of the lower end of the radius and the upper ends of the tibia and fibula (especially the radius) are by far the most favorable for treatment by erasion or resection Conservative treatment is much less likely to succeed in myeloma of the upper end of the humerus and in both ends of the femur The true myelomata can usually be recognized by their slower growth, distinct delimitation, the absence of infiltration of bone, their maroon red color, and often the presence

of pulsation at some point

When autoplastic grafts are used, the periosteum of the graft should be preserved. In reference to Coley's toxins, he says that anything at all com parable to his successes has not been met with elsewhere, and he would not recommend Coley's fluid in any case of operable sarcoma, nor would be recommend it as a prophylactic against recurrence The reports of other surgeons have borne out this deduction Its use should be restricted absolutely DONALD C BALFOUR to moperable cases

Kerr The Suturing of Tendons Practitioner, 2012. IXXXIX, 630 By Surg , Gynec & Obst

In injuries of this type, the workingman's criterion of success of the treatment is the recovery of wage earning power The most frequent locations are the

forearm wrist, and hand

In the first-aid treatment of this condition asensis is paramount the safest dressing being sterile lint covered with sterilized cotton wool. There should be no attempt to examine the wound until the conditions are perfect for asepsis. The diagnosis is first made on the specific action of the tendons in the region of the injury For this the tourniquet must be removed which is possible in most cases if the

first aid dressing is large and tight

Expose the wound, paint with jodine (without other wash), and control the arteries with fingers placed proximally to the wound, applying small forceps at once Continue the subjective examina tion and inspection of the wound, bearing in mind the circumstances of the accident and particularly the act in which the affected hand was engaged at the moment

Usually the proximal end is markedly contracted. the distal end rarely so These are secured a clean incision being made along the sheath if necessary to reach the proximal end Local block method anas

thesia is usually sufficient

Chromicized gut is used for suture. Union of the tendon ends is effected by some method in which longitudinal splitting and pulling out cannot take place For rounded tendons Schwartz's procedure is recommended, for flat, that of Von Arx These are based on the fact that though a suture be tied

around a tendon necrosis of the end does not occur Sheaths and fascia are sutured. The author advises Michel's clips for the skin to avoid stab infection The part should be immobilized for 14 to 21 days Functional treatment is begun the third week, while

the adjustment of length is still possible E B FOWIER

Ely A Simple Operation for the Relief of Deformity in Certain Cases of Volkmann's Paralysis.

1m J Orth Surg , 1912 x 201 By Surg Gynec & Obst

Ely describes a simple procedure for releasing the contractures of the fingers in cases of Volkmann's paralysis which he discovered while dissecting such a hand which had been amoutated three inches above the wrist five or six years after the paralysis occurred He says, "The contracture was present though the hand had been amoutated, hence the evident uselessness of a bone shortening or tendon

lengthening in this case "The contracture in this case was due to some of the deeper intrinsic muscles of the hand, and apparently also to the adhesion of new granulation tissue binding the long flexor tendons to the front of the proximal phalanges of the fingers. We found that when we passed the blade of the scalpel on the flat, close to the anterior surface of the phalanz, dividing

these adhesions for a distance of about one half inch, we could easily reduce the contracture, but that until this tissue was divided the contracture could not be reduced

"The contracture of the thumb was due to a tight contracture of the flexor brevis pollicis, and disap-

peared when this was divided

"Now, whether all cases of Volkmann's paralysis are identical I do not know, nor whether this operation would be successful in another case, but I simply tell you what we found, and suggest that it be tried out when you have the opportunity."

IOHN L PORTER

Athee A Further Report of an Original Treatment for Tuberculosis, Arthritis Deformans, Old Fractures, etc., of the Hip. Post-Graduate, By Surg , Gynec & Obst 1912, XXVII, 1017

Albee reports his ankylosing of the hip in 31 cases, of which 20 were arthritis deformans, 9 tuberculosis of the hip, one a cured tubercular hip, one an old ununited fracture of the neck of the femur with pain and limitation of motion, with ages varying from 22 to 67 years. Albee also states that in 5 of the 17 the process began under 25 years, and concludes that non articular arthritis deformans of the hip begins in a large percentage of cases in the young or middleaged, and that therefore the term "senile coxitis" is distinctly a misnomer, though this is contrary to

most writings on this subject

Technique of operation The hip joint may be approached in two ways - by an anterior straight incision, or by U-shaped lateral one and turning up the great trochanter - the latter being preferable to the former in very fat subjects. The joint is reached anteriorly by an incision 5 or 6 inches long starting from just below and inside of the anterior superior spine of the ilium and extending downward. the sartorius and rectus femoris muscles are retracted outward, and the iliacus and psoas marnus are pulled inward, after which all the deeper muscles and structures are separated by blunt dissection. That part of the acetabulum overhanging the head is next removed, exposing the head and facilitating its removal Approximately one half of the upper capital hemisphere is separated through a plane nearly parallel with the long axis of the femoral neck. The portion to be removed is split, in situ, at right angles to its cut surface with a small osteotome into segments which are then extracted. The upper part of the acetabulum is transformed into a flat surface, against which the flat surface of the head is finally approximated by abduction of the thigh, the femur is strongly rotated outward, the cartilage on the anterior aspect of the remaining portion is removed, as well as the cartilage on the contiguous surface of the acetabulum, in order to get an ankylosis in two planes at right angles to each other

To prevent recurrence of adduction deformity after operation tenotomies of the adductor muscles and tendons are done, and both thighs are enveloped in a double spica, one on the operative side to the

toes and one on the well side to the knee, with both limbs in abduction

Albee, in conclusion, states he believes the field of this operation should be extended to include all conditions which if they existed at the knee joint would be rightly treated by an excision, and emphasizes the fact that the hip is better adapted to this kind of treatment than the knee He concludes by enumerating the advantages of the operation, which are, briefly

1 Minimum amount of bony shortening, which is compensated for, as well as that already existing

by fixed abduction

2 Brings large bony surfaces into close approxi mation and holds them there by the correction of the deformity, thus assuring bony ankylosis and eliminating a painful joint and recurrence of deformity

3 Dislocation of the femur or its displacement extremely unlikely even from weight-bearing immediately after operation, thus permitting aged patients to get out of bed very early

4 Involves very little cutting of soft tissues and does not require dislocation of head from its socket. thus producing very little post operative shock, even in old people

Stiles The After Results of Major Operations for Tuberculous Disease of the Joints. Brit By Surg , Gynec & Obst M J, 1912, Nov, 1364

This paper must be read to be appreciated is a presentation of a series of cases of tuberculous joints in children on which the author has performed radical major operations. His mortality is high, but it must be remembered that the type of case subjected to operation is one far advanced in the disease The paper is distinctly not an appeal for operation in all cases, for Mr Stiles practices and recommends conservative treatment in earlier cases For 14 years, as surgeon to the Royal Edinburgh Hospital for Sick Children, the author has consistently advised operation in the severe type of tuberculous joint which has resisted conservative methods or is brought in late in the disease and is practically in the final stage. He takes up the objection which is usually advanced against resection in children. namely, the shortening which may follow the number of his cases is not great enough to settle the point, it is quite clearly shown that this objection is probably overestimated considering the seriousness of the cases Probably the greatest cause of the difference between Mr Stiles and his critics is that the latter do not appreciate the desperate type of case that the former is considering and operating The paper is well worth the careful study of the orthopedic surgeon, the general surgeon, and the medical man M S HENDERSON

Watkins: Concerning the Operative Treatment of Claw-Foot. Am J Orth Surg, 1912, x, 230
By Surg, Gynec & Obst

Watkins describes a modification of Sherman's operation for claw-foot or hollow foot due to parconsequently entirely incapable of functional regeneration after division or destruction Surgeons in general have not accepted as convincing any clinical or experimental evidence yet presented in

support of the opposite view

Though experience has shown that the diagnostic line between complete and partial lesions of the cord is not always an absolute one, yet definite and permanent absence of the deep reflexes, the most striking feature of total lesions, may safely be regard ed as of absolute worth in practically all cases (the Bastian-Bruns law)

A temporary loss of these reflexes has been observed in many cases of partial lesion of the cord Sencert and Auvray look on the early appearance of the reaction of degeneration in the affected nerves as the diagnostic mark of a total lesion

It is probable that in the future operations for total transverse lesions will be undertaken only with the idea of trying to make an anastomosis of the nerve roots above and below the lesson

If the diagnosis of a partial lesion of the cord is certain, and no evidence of spinal deformity is found. operation is not indicated, at least as an immediate measure If there is spinal deformity, active treat ment should be instituted. Active treatment does not always mean operative treatment. In certain cases the effect of position, traction, "gravity reduction," etc , should be tried first Later, operation may become necessary, and it is to be advised if the nerve symptoms have not improved spontaneously or if aggravation of the nerve symptoms is in evidence

In isolated, depressed and displaced fractures of the spinal arches, with signs of a partial lesion of the cord, operation should be undertaken promptly Likewise, in fracture dislocations with symptoms pointing to a partial lesion, operation is indicated

In fracture or deformity of the midcervical region, where there is danger of pressure on the fourth cervi cal segment, operative treatment is to be advised

Operation is indicated in all lesions of the cauda

Do not regard laminectomy as a harmless opera tion Be conservative in using it as an exploratory measure If laminectomy is undertaken, it should he done with all possible gentleness and with pir ticular attention to hamostasis

MacCordick and Nutter Traumatic Spondylolisthesis Following a Fracture of 2 Con-genitally Deficient Fifth Lumbar Vertebra Am J Orth Surg , 1912 x 214 By Surg Gynec & Obst

The authors describe the autopsy findings in the case of a man of 37 who received a crushing injury to his spine from a heavy steel beam which fell upon his back Paraplegia followed immediately, lami nectomy was performed and the second lumbar vertebra was wired to the third He never recovered from the paralysis, but lived two years At the autops) it was discovered that the fifth lumbar

vertebra was displaced forward 2 cm, and further examination revealed that the neural arch of this vertebra was separated from the body, and probably had always been, as a false joint existed between the fragments on both sides of the arch, covered with periosteum, and the left half of the arch was smaller than normal

The intervertebral disc between the second and third vertebræ was missing and the vertebræ united by cartilage the second being displaced laterally upon the third The authors believe the disc disappeared by absorption following the injury, as there was evidence of its having protruded into the neural canal, and the cord showed evidence of crushing injury at that point I L PORTER

Reynolds The Diagnosis and Treatment of Compression Paraplegia Bril M J, 1912, Nov 1140 By Surg , Gynec & Obst

The paper is largely taken up with causes and symptoms of compression paraplegia Among the causes, the author points out that occasionally an obscure paraplegia may be due to a metastasis from a malignant growth elsewhere in the body. This primary growth may be very small and easily over looked such as small breast cancers or thyroid cancers The treatment is usually surgical Opera tion is recommended in those cases due to tuberculous carries rather than to trust to too prolonged rest (the conservative method of treatment), whereby permanent damage may ensue before the inflammation has subsided Reynolds condemns delaying Inminectomy too long in doubtful cases

M 5 HENDERSON

Roberts The Treatment of Pott's Disease by Hypersection Post-Graduate 1912 xxvn, 1033
By Surg Gynec & Obst

Roberts reports the results of two years' work in Pott s disease showing by photographs and tracings the effect of plaster jackets applied in hyperextension by means of the "jack and sling," an apparatus devised by him three years ago The machine is extremely simple, portable and apparently more eflicient than any apparatus previously used consists of an automobile tack to which is attached a horizontal bar carrying a bandage shing about three inches wide The theory of its operation is to make the diseased area a fixed point by placing the kyphos on the bandage, which, as the jack is operated raises this part and allows the distal ends of the spine to fall away from it, thus producing a gap between the diseased vertebræ A plaster jacket applied in this position maintains the relations of the bones, and when the patient is placed on his feet, weight bearing is taken up by the lateral articular facets and the diseased bodies are relieved of pressure and friction Roberts' cases show that where treatment is begun early deformity is never marked, and in some instances has been entirely prevented In older conditions the deformity has been greatly reduced No abscesses occurred in the

cases, and the period of treatment was contibly shortened. The method is advised for all is below the eighth dorsal vertebræ, and the ished results seem convincing as to its efficacy.

uslie: The Varieties and Treatment of Lateral Curvature of the Spine Lancet, Lond 1012, classin 1430 By Surg , Gynec & Obst

Lateral curvature of the spine is classified accord g to pathological causes (1) congenital, (2) ckety, (3) secondary, which may be due to (a) ilting of the pelvis from shortness of one leg, (b) ilting of the pelvis from fixed adduction of one hip (c) torticollis, (d) fibrosis of the lung or adherent and thickened pleura, or (e) spinal caries, (4) paralytic, (5) adolescent or static which includes the greater proportion of cases (6) hysterical The anatomical varieties are (1) postural curves - the position is one which the normal spine can assume, (2) struc tural curves - the position is one which the normal spine cannot assume. In any case there may be one or more of three elements of deformity displace ment, deviation, and rotation. The author considers the different explanations offered for the deformity of rotation Postural curves those which represent an attitude of the spine which is normal in certain attitudes, but which is abnormal in that it has become habitual Structural curses those which represent an attitude which is not possible to the normal spine The commoner lateral curves may be classified as fol lows (1) weak spine, (2) single curves, (3) transi tional curves, (4) double curves (3) treble curves

Treatment The problem of treatment is purely mechanical and involves four methods (1) The strengthening of the spinal muscles or of certain sections of them, (2) the training of the spinal muscles so that the patient without voluntary effort assumes a symmetrical habitual posture (3) mechanical and forcible stretching of the spina to undo curves which have become at all fixed (4) mechanical support to the spine to prevent increase of the deformity D C Burrows

Bradford Scoliosis, A Corrective Jacket Applied in Sections im J Orth Surg 1912, x 178 By Surg Gynec & Obst

Bradford describes a method of applying correct ve packets of plaster of Paris for the correction of scolosis. By this method the pelvis is fixed in the desired postion and enclosed in plaster dressing. Then the position and relation of the shoulder graffel is similarly corrected and fixed and after the plaster has set the middle section represented by the ribs, its corrected as much as possible, and by a third section of plaster bandages is connected with the section of plaster bandages is connected with the other two section.

Lord The Treatment of Scollosis by Plaster, Supplemented by Pneumatic Pressure Am J Orth Surg 1912, x, 183 By Surg, Synce & Obst The author describes a method of treating fixed type of scolosis by plaster of Paris Jackets Large fenestra are cut over the abdomen and breasts and

under the high shoulder. The plaster is carried up over the shoulder so as to make pressure against the neck. The low shoulder is held up by a wide padded strap attached to the plaster of Paris, while the high shoulder is held back by a similar strap

In addition to the usual corrective pressure exerted by the cast, he resorts to the introduction of pneumatic pads under the casts when they are put on, and by subsequent inflation additional corrective pressure can be made against the prominent ribs in front and behind These pads are made of sections of the inner tube of automobile tire from four to eight inches long, with the ends vulcanized together so as to make a closed bag A bicy cle valve is set into the edge of the pad, and this is so placed that when the fenestra are cut out of the casts the valve protrudes so as to permit of inflation with a bicycle pump. In this way graduated pressure can be exerted up to the limit of tolerance. Reference is made to similar use of pneumatic pressure by others - Bade, Lubinus, Bilhaut, and McHenry

I Donne

MALFORMATIONS AND DEFORMITIES

Ridion and Thomas Absence of the Bony Femoral Heads and Necks Am J Orth Surg, 1912 x 205 By Surg, Gynec & Obst

The authors call attention to the rarity of congenital defects in the upper end of the femur and cite briefly the references in literature to such conditions

Two cases are reported of rachitic children in which no femoral heads could be detected by palpation or X ray plates. One child was 2 years old the other was 7.52

In one case (Thomas), after treatment by recum bency and anti rachitic det for something over a year the X ray plate revealed a head and neck press. In on both sides, one in the acetabulum and one displaced. The older case (Ridlon's), after three years without treatment, shows an increase in lordosis, the child has grown little, if any, and walks with difficulty. The uppard displacement has increased. The X ray plate shows a suggestion of a femoral head in the acetabulum but no next.

As the condition in both these cases seemed to be due to the severe rachitis and later showed evidence of development of the femoral heads, the authors better the ossification in these cases was simply delayed, and propose calling the condition an absence of the bony heads and necks of the femural hair rachitic fleeding and recumbency to prevent deformity due to weight-bearing would seem to be the treatment indicated

J L Postera

Stevens Cause, Prevention, and Cure of Weak and Flat Feet. A Y M J 1912, xcvi, 957 By Surg , Gynec & Obst

Despite the title, the article is chiefly a discursive description of the author's idea of the mechanics of weight bearing in the foot. He believes the chief source of strain, which results in weak and flat feet, is the lack of support of the base of the fifth metatar-

tion

alysis of the lumbricales muscles and consequent dropping of the metatarsal heads and contractures

of the plantar fascia and muscles

He first flattens out the foot by wrenching and division of the plantar fascia. When the foot is flat the tendo achillis is divided. This preliminary flattening may require two or more seances. Then he makes a longitudinal incision on the outer side of the dorsum of the foot exposing the fourth and fifth metatarsal bones These are drilled laterally in one maneuver without withdrawing the drill, and a strong piece of silk is drawn through both bones and cut so as to leave each bone with a nicce of silk running through it. Through a similar incision on the inner side of the dorsum the second and third metatarsals are drilled in the same way and threaded with silk and the drill is then reversed and passed through the first metatarsal and that is threaded That leaves each metatured bone threaded with a piece of strong silk drawn through a perforation near the head

In assistant plantar fleves the toes and dorst leves the foot thus pulling down the extensor tendons. The silk ends are then basted into the tendon and it is tied down onto the corresponding metatarsal above the point of perforation. The knots are crushed flat and tendon sheaths allowed to fall back into place without stutting.

The skin wounds are then closed and the foot put up in plaster of Paris with the toes plantarities to relieve the strain on the tendors. The plaster casts are left on six weeks. Mirer that the patient begins to make voluntary motions with the foot and toes, but does not step until some weeks later months after operation the first case in which this technique was used showed steady improvement the amount of voluntary control and decrease in the deformaty.

Farber and Von Saar Technique of Resections of the Foot by Means of a Longitudinal Incision Bette - klin Chr. 1912 Ixxxi 175 By Surg Gynec & Obst

The author makes a plea in favor of the method of resection of the foot proposed by Obalinski in 1800 This method consists in a partial antero posterior hemisection of the foot with disarticula tion of the cunciform bones and of the cuboid The advantage obtained by this procedure is that the greatest number of tendons blood vessels and perves are spared In carefully chosen cases especially those of tuberculosis of the fore part of the foot (metatarsal cuneiform and cuboid bones) it may give good results as Färber and Von Saar have demonstrated in 4 cases which they operated in Von Hacker's chinic The authors go even further in that they extend the sagittal hemisection through the entire foot, cutting the calcaneum with a saw their experiments on dead bodies prove to their satisfaction that this total hemisection is of great value They claim that it is a simple matter to combine Obalinski's hemisection with the external

retromalleolar incision of Kocher, in this way making it possible to lay bare all the joints of the anterior and posterior tarsus with a minimum amount of damage to the foot. This method how ever has not yet been tried by the authors upon the living bods.

They conclude that the method of Obaluski in its pure or in its extended form, should be retained as a useful operation which gives good results in the treatment of tuberculosis of the foot the treatment of which has always been thrukless and difficult

I S Tattor le

Cilley Treatment of Traumatic Flat-Foot 1m

By Surg Gynec & Obst

Lilby describes the treatment of various forms of traumite flat foot and divides them clinically not three classes — mild seere and more sever. The first group which is caused by strains and sprains about the ankle joints he treats if seen early, but strepping with addessee plaster either by the so-called basket method or with the long surroy and figure of eight. If done promptly that effects a

The second group due to bad sprans with some rupture of ligaments and secrete contusions without discoverable bone raptur is given a fee days' rest with a single bandage until the swelling and ecch mosts have subsided and are then strapped in the adducted position or put up in plister of Paris and the patient permitted to wilk. When the abductor spann is marked and the foot to have the abductor has most be overcome in one or two seasees of the first substitute of the properties of the properti

The author calls sttention to the fact that the fact that the call that the operator and proposes an ingenious maneuver to enable him to do so Constant use of the foot in corrected position supported by appropriate fixation dressing is insisted upon as being of value in securing a more randi use and better func-

In the third class with fracture, dislocation or other bone anjures the author remaind us that our object is to get a useful functional foot, and not regard co-metter results. To do that the foot must regard co-metter results are considered to the foot must length and severe tusting or wrenching under angestiesa may be necessary. It the same time the foot must be kept at a right angle to the leg and the foot is freed in plaster until it can be appointed in its left of the foot is freed in plaster until it can be supported in its proportion for the proportion of th

I I POSTER

Denk Free Fascia Transplantation Arch f kim Chir 1912 xcix, Nov By Surg , Gynec & Obst

The article contains details of all the case reports from you Eiselsberg's clinic in which free trans plantation of fasca was imployed. To cover defects in the durt and the protection of prolapsed frain after removal of brain tumors were the conditions in which the free transplantation of fascu was most frequently used — 19 times. It was used also twice in overing mobilized joints, time to strengthen the sutures in the peritoneum after ventral hermotomy once to secure an intestinal stuture after resection of the freetum and finally three times 10 bridge over defects in the urethra

The results are summarized as follows. Among this to case of fascia plastic operations on the dura 4 med of shock, a case recovered with protection of a case street of the control of the

The value of the operation in brain tumors on this whole is considerable. The fiscial unities with this dura without trouble, and there is subsequent obliteration of the subduril space from the outside so that prolaipse and lugior fistula is prevented. But in order to avoid altogether such complications it is advisable to place the fascia flap with a wide margin over the dura and to untie them with a double, row of

continuous sutures

In the two cases of anky losed joints (elbow-kine), complete recovery with good function occurred In the strengthening of suture lines and the bridging over of defects the use of the fiscia in aseptic localities is especially of great value. In septic cases the method is uncertain.

M Blunsbaum

Blunsbaum

**Blu

Braunig Amputations of the Lower Limb.

Deutsche med Hehnsche 1912 xxxviii 2071

By Surg , Gymet & Obst

The author has collected statistics of the amputa tions performed in the surgical chinc of Rostock during the years 1901-1901, with a view to studying the final functional results obtained especially the capability of the stump for supporting the weight of the body of 122 amputations of the thigh or of the lower leg Brauning finds but a small number which afterward were able to sustain the body weight

He speaks highly of the results obtained by the procedures of Pringoff and Gritti. In the majority of cases even where suppuration had been present the patients were able to walk on the stumps Among the amputations of the thigh the author found only a single crise and in those of the lower part of the leg only 8 cases in which the stumps were fit for use.

Braung lays stress on the great usefulness of post-operative treatment. He emphasizes the great necessity of early and prolonged massage of the stump. This treatment, which is too often neg lected, has enabled a number of patients to make active use of the stump.

F. Yaknot Jr.

ORTHOPEDIC SURGERY

DISEASES AND DEFORMITIES OF THE SPINE

Malkwitz Dislocation of the Cervical Vertebræ
Without Symptoms Referable to the Spinal
Cord Irch f Orth Urch in Unfallthir 1912 21
No 4
By Surg Gynec & Obst

Reports of o cases from the clauses of Hoetiman. homspherg and kocher in 1869 and of Haustshel in 100; stated that dislorations and fractures of the vertebre result always in leasons of the spinal cord That such is not always true is shown by the o cases in which total dislocation of a cervical vertebra was demonstrated by X ray pictures. In none were paralytic symptoms shown, nor did the patients suffer from great functional disturbances.

Bottomley The Surgical Treatment of Injuries of the Spinal Column Affecting the Cord. Boston M & S J 1912, clvn, 691 By Surg , Gynec & Obst

The treatment of all spinal injuries is determined

by the presence absence, and the character of injury to the cord

So-called ' concussion of the cord" has no distin-

guishing symptoms and consequently is of no clinical interest

Simple contusion of the cord is dishicult of diagnosis and rarely exists alone. Its treatment is non-operative.

Harmorrhage within the spinal canal may be

extradural intradural or intramedullary (hemaica myela). The extradural and intradural forms are usually not of great importance, and the occurrence of either or both is not to be regard, do as an indication for operation underscompression of the mid-ceivaci cord by the harmorthage directly imperils life. When intraspinal hemorthage is severe it is usually the accompaniment of more grave ord injury, and its treatment is involved in that of the more severe lesson.

In hematomyelia operation cannot be of avail Destruction of the grav matter is instantaneous, and such pressure as exists on the white matter will be relieved by the subsequent process of absorption Operation is not indicated in complete transverse

lesions of the cord, because of the fundamental fact that the axones of the spinal cord (exclusive of the cauda equina) are without neurilemmata, and are early cases, and the period of treatment was con-siderably shortened. The method is advised for all lesions below the eighth dorsal vertebræ, and the published results seem convincing as to its efficacy

Elmslie. The Varieties and Treatment of Lateral Curvature of the Spine. Lancet, Lond 1912, clxxxiii, 1430 By Surg, Gynec & Obst

Lateral curvature of the spine is classified accord ing to pathological causes (1) congenital, (2) nickety, (3) secondary, which may be due to (a) tilting of the pelvis from shortness of one leg (b) tilting of the pelvis from fixed adduction of one hip, (c) torticollis, (d) fibrosis of the lung or adherent and thickened pleura, or (e) spinal caries, (4) paralytic, (5) adolescent or static, which includes the greater proportion of cases, (6) hysterical The anatomical varieties are (1) postural curves - the position is one which the normal spine can assume, (2) struc tural curves - the position is one which the normal spine cannot assume In any case there may be one or more of three elements of deformity displace ment, deviation, and rotation The author consid ers the different explanations offered for the deformity of rotation Postural curves those which represent an attitude of the spine which is normal in certain attitudes, but which is abnormal in that it has become habitual Structural curves those which represent an attitude which is not possible to the normal spine The commoner lateral curves may be classified as fol lows (1) weak spine, (2) single curves, (3) trans-

tional curves, (4) double curves, (5) treble curves

Treatment The problem of treatment is purely mechanical and involves four methods (1) The strengthening of the spinal muscles or of certain sections of them, (2) the training of the spinal muscles so that the patient without voluntary effort assumes a symmetrical habitual posture, (3) mechanical and forcible stretching of the spine to undo curves which have become at all fixed (4) mechanical support to the spine to prevent increase of the deformity D C BALFOUR

Bradford Scoliosis, A Corrective Jacket Applied in Sections im J Orth Surg , 1912, x 178 By Surg Gynec & Obst

Bradford describes a method of applying correct ive jackets of plaster of Paris for the correction of scoliosis By this method the pelvis is fixed in the desired position and enclosed in plaster dressing Then the position and relation of the shoulder girdle is similarly corrected and fixed and after the plaster has set the middle section, represented by the ribs, is corrected as much as possible, and by a third section of plaster bandages is connected with the other two sections I L PORTER

Lord The Treatment of Scollosis by Plaster, Supplemented by Pneumatic Pressure. Am Orth Surg 1912 x, 183 By Surg , Gynec & Obst

The author describes a method of treating fixed type of scoliosis by plaster of Paris tackets Large fenestra are cut over the abdomen and breasts and

under the high shoulder The plaster is carried up over the shoulder so as to make pressure against the neck The low shoulder is held up by a wide padded strap attached to the plaster of Paris, while the high shoulder is held back by a similar strap

In addition to the usual corrective pressure exerted by the cast, he resorts to the introduction of pneumatic pads under the casts when they are put on, and by subsequent inflation additional corrective pressure can be made against the prominent ribs in front and behind These pads are made of sections of the inner tube of automobile tire from four to eight inches long, with the ends vulcanized together so as to make a closed bag. A bicycle valve is set into the edge of the pad, and this is so placed that when the fenestra are cut out of the casts the value protrudes so as to permit of inflation with a bicycle pump In this way graduated pressure can be exerted up to the limit of tolerance Reference is made to similar use of pneumatic pressure by others - Bade, Lubinus, Bilhaut, and McHenry

MALFORMATIONS AND DEFORMITIES

Ridlon and Thomas on and Thomas Absence of the Bony Femoral Heads and Necks. Am J Orth Surg By Surg , Gynec & Obst

1912 x 205 The authors call attention to the rarity of congenital defects in the upper end of the femur and cite briefly the references in literature to such conditions Two cases are reported of rachitic children in

which no femoral heads could be detected by palpa tion or X ray plates One child was 2 years old, the other was 71/2

In one case (Thomas), after treatment by recum bency and anti-rachitic diet for something over a year, the X ray plate revealed a head and neck present on both sides, one in the acetabulum and one displaced The older case (Ridlon's), after three years without treatment, shows an increase in lordosis, the child has grown little, if any, and walks with difficulty The upward displacement has increased The X ray plate shows a suggestion of a femoral head in the acetabulum but no neck

As the condition in both these cases seemed to be due to the severe rachitis and later showed evidence of development of the femoral heads, the authors believe the ossification in these cases was simply delayed and propose calling the condition an absence of the bony heads and necks of the femur Anti rachitic feeding and recumbency to prevent deformity due to weight-bearing would seem to be the treatment indicated J L PORTER

Stevens. Cause, Prevention, and Cure of Weak and Flat Feet A Y M J, 1912, XCY1, 957.

By Surg, Gynec & Obst

Despite the title, the article is chiefly a discursive description of the author's idea of the mechanics of weight-bearing in the foot. He believes the chief source of strain, which results in weak and flat feet. is the lack of support of the base of the fifth metatarsal bone in our ordinary shoes. The fact that the structure of the sole of the foot fits it for its function as a "shock absorber" is well explained in the author's very interesting exposition of the various intricate mechanical factors involved in the foot in sustaining and propelling the body weight

The only suggestion as to treatment of weak feet is that the inner side of the sole should be raised so as to throw the weight toward the outside of the foot and give the base of the fifth metatarsal a firm rigid support in the same plane as the ball and heel I L PORTER

SURGERY OF THE NERVOUS SYSTEM

Collins and Armour The Metastasis of Hypernephroma in the Nervous System sonian Epilepsy Caused by Such Lesion Im J W Sciences 1912 cxlis 726

By Surg Gyner & Obst.

It is a well known fact that tumors of the adrenals may exist without symptoms and that metastasis of such tumors may occur in parts of the body remote from the adrenals without previous or coin cident manifestations of disease in the adrenals times one has to distinguish bone metastasis of it from brachial pelvic and other forms of neuralgia but these are of rare occurrence

The author reports a case of Jacksonian epilepsy which was found to be dependent upon a metastasis of hypernephroma The patient was a Bohemian eigar maker aged 45 years who had not been ill since childhood until he had an attack of uncon sciousness four months before he entered the Neurological Institute in July 1911 This attack came on suddenly while he was at work. May o toti He felt a twitching of the left thumb and forefinger followed by a sensation of numbness and tension gradually extending up to the shoulder and then he lost consciousness Within an hour he felt quite well again, save that he was weak and discouraged have bours later he had a second attack, but without loss of consciousness. Within a few days he began to have attacks characterized by paræsthesia in the left hand and forcarm and twitching of the thumb and index finger which were not accompanied by any disturbance of consciousness and which were not followed by any loss of dexterity He had from one to five such attacks every day for three months following the original attack. Later he had three attacks each typical of Jacksonian epilepsy physical examination at this time tailed to reveal any disease of the brain nor did the patient com plain of any symptoms save those that have been enumerated. In September 1911, he had developed a slight somnoline; Wassermann examination of the blood and cercbrospinal fluid was negative. In the latter part of September he developed a rhyth mical movement of the thumb and index finger, the movements being at the rate of 1 per second He also complained of severe pain in the back of hand and wrist. There was no disturbance of contact or thermal sensibility

Five months after the initial symptom the patient, while lying in bed, had a series of convulsions and died

Autopsy showed a large whitish tumor in the right This tumor had invaded the upper pole of the right kidney surrounded the adrenal and extended into the under surface of the right lobe of the liver Small metastases were found in other parts of the liver as well as near the junction of the jejunum The only other metastasis found was in the right cerebral hemisphere This was 11/2 inches in diam eter situated one fourth of an inch below the surface midway between the vertex and the base, that is, in the arm area and more particularly in the hand

We also find metastasis occurring in the ovaries and testicles This conception of hypernephroma must lead one to regard it as a congenital phenomenon These secondary tumors more commonly occur in bone, this case being only the third of its kind on record II A POTTS

Challer and Bonnet Neurotomy of the Superior Laryngeal Nerve in Tuberculous Dysphagia, Anatomical Considerations, Technical Indications (La névrotomie du nerf laryngé supérieur dans la dysphagie tuberculeuse données anatomiques, indications techniques) La Presse med 1912 XX, By Journal de Chirurgie

In the treatment of painful dysphagia due to Liftingeal tuberculosis or larringeal cancer excellent results have been obtained by the intraneural in jection of cocain alcohol, and other agents in the superior larvingeal nerve. In spite of the simplicity of this method it is a blind procedure and has all the disadvantages of such procedures. The nerve may have a more or less abnormal course and thereby escape the needle and the injection Fur thermore one runs the danger of puncturing the thyrohyoid membrane and injecting the syringe contents into the pre epiglottic space in the lary ngo pharyngeal grooves and thereby determining regional eedema productive of symptoms of greater or less severity. In some cases the result of the injection is slight and of short duration, repeated injections may be necessary

Owing to these disadvantages, the authors suggest a procedure which can be used alone or as an adju vant to the various analgesic methods They sug gest the resection of the internal branch of the superior larvingeal nerve. They proceed as follows The patient is placed in the same position as for ligature of the external carotid. The operator is on the side of the patient on which is the nerve

which is to be resected. The assistant is on the opposite side, pushing the hyoid bone toward the operator The operation is done under local anesthesia There are three main landmarks posteriorly the anterior edge of the sterno-cleido mastoid, superiorly the inferior edge of the hyoid bone inferiorly, the superior thyroid cartilage The operation is performed in three steps First a horizontal cutaneous incision 4 cm long midway between the hyord bone and the thyrord cartilage and extending from the anterior border of the sterno-cleido-mastoid to within 1 cm of the median The second step is the incision of the super ficial cervical aponeurosis This is also a horizontal incision and should be of the same length as the cutaneous incision. The posterior border of the thyrohyoid muscle is located behind and the lateral notch of the thyroid is located below by the index finger By keeping in front of this notch the opera tor avoids injuring the external laryngeal nerve The third step consists in exposing and dividing the superior laryngeal nerve. This nerve is sought in the retrothyroid space. It is deeper than the superior laryngeal vessels but like them it courses upon the thyrohyoid membrane and is found about midway between the hyoid bone and the thyroid cartilage

The superior branch is exposed A thread is placed around it and its divergent ramifications become manifest. Only the horizontal branch of the nerve calls for division the section being made between the terminus of the nerve and the origin of the external laryngeal. No traction is exerted upon the central segment of the nerve as this might produce respiratory reflexes. One may add, if he deems it necessary to simple division of the nerve the excision or avulsion of the peripheral end of the superior branch I DURONT

Bérard and Chalter Traumatic and Operative I esions of the Cervical Pneumogastric (Les lésions traumatiques et opératoires du pneumogastrique au cou) Lyon Chir , 1912 viii 461
By Journal de Chirutgie

The gravity of these lesions must not be exagger ated and they must not appall surgeons in performing operations upon the neck. The authors report 8 cases in 2 of which the right pneumogastric and s) mpathetic were resected in the course of operation for removal of malignant tumors. In one of these patients operated upon two years ago there were no immediate nor late symptoms Recovery occurred and persists. The other patient died on the fourth day after operation from pulmonary complications with a rapid pulse of low tension These accidents however differed in no was from those which are often noticed after prolonged, shock producing operations during which air enters into the veins. In 6 other cases Bérard and Chaher observed pneumogastric irritation due to operative maneuvers They noted irregular respirations and slowing of the pulse, but these were only short

alarms, and in not one of the cases were secondary pulmonary phenomena manifested

The study of the scattered cases reported in the literature confirms this habitual innocuousness of pneumogastric resection | Irritation of the pneumogastric is more dangerous than section or resection

Traumatic injuries They are uncommon may be due to gunshot wounds to stab wounds, to fractures of the hyoid bone etc In the majority of cases they are complicated by lesions of neighboring nerves (sympathetic hypoglossal etc.) or by lesions of contiguous vessels (carotid artery internal jugular vein) The complexity of the lesion in these cases makes it difficult to determine which symptoms are due to mjury of the pneumogastric or which are due to injury of the other organs Respiratory disturbances, paralysis of the corresponding vocal cord and at times coughing and dyspnera are noted Cardiac symptoms are present also, acceleration of pulse Digestive disturbances are exceptional These lesions give a bad prognosis In 14 cases that were followed there were 7 deaths and 7 cures Two of the deaths were due to asphyzia and 5 to pneumonia. Vocal and respiratory disturbances usually disappear after a few weeks There have been permanent laryngeal paralyses

Operative division or resection of the nerve This is more interesting for the precise effect of the neryous lesion can be determined. The authors collected 54 cases almost all occurring during the operative removal of malignant tumors of the neck All were unilateral There is no known example of bilateral vagotomy in man In the lower animals, bilateral division of the pneumogastric is always fatal. The ligature or partial resection of the neighboring large neck vessels was often practiced at the same time - the jugular 12 times. the caroted 28 times

The effects of vagotomy must be considered (1) With reference to the heart At time of the division there is a sudden acceleration of the pulse. exceptionally preceded by slowing. This tachycardia is never associated with alarming symptoms. and disappears in a few hours or in a few days (2) With reference to respiration Outside of recurrent paralysis which is the rule immediate respiratory symptoms are nil or so light that they escape detection The secondary pulmonary complications are frequent are explained by the nature of the operation and do not depend upon undateral vagotumy (3) With reference to the digestive apparatus Dysphagia has been noticed but only in cases in which it could be explained by the seat of the operation (tongue pharynx asophigus) So that it can be said that unilateral division, be it on the left side or on the right side of the normal or of the diseased pneumogastric nerve has in itself no gravity The divided nerve should if possible, be sutured laryngeal paralysis may thereby be improved

Operatine serilations They constitute the most serious traumatisms of the nerve especially when the irritation is strong, (ligature, pinching), simple denudation or stretching of the nerve determine only temporary symptoms. In cases of violent irritation there have been noticed with reference to the heart, temporary slowing of the pulse, temporary stopping of the heart, and even mortal syncone. with reference to respiration violent or continuous dyspnora, momentary arrest of the respiratory movements and at times permanent arrest of the respiration, with reference to the digestive apparatus. nauser and vomiting Never have any late pul monary complications been noticed. The fatal accidents are usually due to conditions independent of the nerve lesion (anysthesia cachegia hamorrhage, etc) CH LENORMANT

Sicard and Desmarest Dorsal Spinal Gangliectomy (Gangliectomic rachidienne dorsale) La Presse mld , 1912 xx Nov By Journal de Chirurgie

In tabetic gastric crises and in certain intercostal neuralgias. I ranke proposed intervention at the level of the intercostal spaces and externation of the spinal ganglia by traction upon the exposed intercostal nerves as this emerge from the intervertebral foraming Laually in this operation, the nerve is ruptured at a distance varying from 1, to 1 cm from the spinal ganglion and owing to this the operation is ineffective. To surely remove a ganglion one must divide the costotransverse liga ments free the intervertebral foramen and with a curved sound expose the nerve as it escapes from the vertebral column. The nerve can be exposed by this method and the ganglion extracted but it is at the expense of tissue licerations, and the pleurs and the dura are injured. One notes that the dura mater is solidly attached to the periosteum by abrous bands extending beyond the ganglion and merging into the neutricmma of the intercostal nerve. In pulling away the ganglion one injures the mininges, serious consequences may result

The authors propose for exposure and removal of spiral graploon, a simpler route. After a luminor toms and exposure of the epidural space the different modulars roots are dentitled ligated and divided close to the spiral cord but without opening the darr must. Then with the aid of a kocher forceps the gauginor with the attached roots in the interesticities for time is removed.

This operation to which they give the name of

extradural spinal gangliectomy has the following advantages It is benign, because it permits the removal of the ganglion without injury to the dura mater, and therefore without loss of any cerebro spinal fluid Furthermore, it permits complete re moval of the ganglion and acts upon the sympathetic system by removing the anastomotic sympathetic filaments This operation, however, will not often be practiced upon tabetics, as in them the radicular ganghonic lesion is not definitely localized the men ingitis is usually, if not always, diffuse, and the inter ganglionic anastomoses are too numerous to be effectively suppressed. This operation is the operation of choice in certain intercostal neuralgias and also in the painful sequelæ of intercostal zona I DEMONT

Bungart. Resection of Posterior Dorsal Roots for the Treatment of Gastro-Intestinal Grises in Tabes Dorsalis (Em Betring sur Irage der Behandlung gastro intestinaler kniven bei Tabes Dorsalis durch Resektion hinterer Dorsaliswirgelo) Mill of Grenzie d Mild u Chr., 1912 zw., 702

By Surg , Gynec & Obst . The author reports three cases of tabes with gastro-intestinal crises operated on by Forster's resection of posterior dorsal roots. The results were satisfactory in general In the first case the gastrointestinal trouble was completely removed the second case was much improved, and in the third case the crises did not occur again. This is in accord ance with the observations of other authors Of 43 cases operated, 35 are reported as cured or considerably improved. The majority were severe cases, and in some there was a vital indication for the operation. No relapses have taken place in cases which were seen one and one and a ball years after operation, this period is, however not long enough to speak of a permanent cure. The operative procedure is as follows After incision the musculature is loosened the vertebral arches resected and the wound surfaces covered with thick compresses and pulled apart with especially constructed long broad, sharp hooks, thus allowing good view of the field of operation and control of otherwise discon certing parenchymatous hamorrhages The resection of the roots follows and takes but a few min The author does not consider the loss of cerebrospinal fluid as dangerous as some This is however different if cerebral tumors are present

E S TALBOT IR

DISEASES AND SURGERY OF THE SKIN AND APPENDAGES

Hesse. The Origin of Epithelial Cysts Beile 2 klin Chir, 1912, lxxx, Oct By Surg., Gynec & Obst

It has been taken for granted that this question was a settled one and that it was now proven both by the anatomic and clinical observations of Gross Reverdin and Garre, and by the experiments of Kaufman, that the traumatic cysts which are found most commonly on the fingers are due to the inclusion of the hypoderm and subculaneous cellular tissues of the small fragment of the epider miss. This latter development gave rue to the traumatic epidermoid cyst. Each has attempted to establish Experimentally Fels-Leusdein's theory

as to the pathogenesis of these cysts. The author attributes their origin to ectoderine; entitleial débris dérived from the glands of the skin or from the sheaths of the hair molecules, and his experiments on rabbits show that in certain cases the sheaths of the hair follicles and glands of the skin may giver use to a cyst formation which is in all

ways analogous (epidermoid)
The conclusion drawn is that the theory of Pels-Leusden is not to be ignored, and that though these cysts may be mostly due to buried epidermis they may also at times have their origin in the glands of the skin or the hair follicles
M. C. Piccorrs

Heddæus: Treatment of Large Carbuncles by Gircumcision (Ucher de Behandlung grosser Karbunkeln durch Zirkumzison) Munchen med Wchnischr 1912, l. 2459 By Surg Gynec & Obst.

The case in question was a carbuncle in the neck of a diabetic. This had been previously treated by the house physician, first, with compresses and then by crucial incision, but the condition did not improve. When admitted to the clinic much bloody pus was emptying through the incision from an abscess which undermined the skin far to the right The inflammatory infiltration reached to the sterno cleido mastoid muscle forward and to the tabular surface of the occipital bone, the skin was bluish red and ordematous A deep circular incision was made through all tissues down to the musculature, and on the skull down to the periosteum. Tincture of jodine was then applied and the operation wound tamponed with wet collargol gauze median abscess was then opened and deep radial incisions made to allow the removal of the pus. The success was remarkable. The cedema disappeared, temperature became normal, and the patient had no pain The wound was rinsed with H2O2 solution and again dressed with collargol gauze. On the second day necrosed tissue had been cast off Temperature then increased, intravenous collargol insections had no effect, respiration became forced, and on third day after operation coma set in and exitus occurred in the afternoon Post-mortem autopsy showed small miliary abscesses on the entire periphery of the lung, which undoubtedly within a few days would have caused death Great masses of staphylococci were found in the tissue and vessels of the lungs From the surgical stand point it seems impossible that the infection of the lung was caused by the operation, because of the immediate application of iodine and tamponage. The first case (reported in September, 1912) showed the good results of the treatment, and the second was on the way to do so. Early operation with the described method is advised in cases such as this, and is also advocated for anthrax carbuncle. E. S. Talsov, IR.

Weber Multiple Calcification in the Subcutaneous Tissue Proc Roy Soc M, 1912, vi 14 By Surg, Gynec & Obst

This interesting case occurred in a German gid, aged 7, who presented, at the claims, hard nodules in the subcutaneous tissue of the extremities and the portions of the trunk adjoining the extremites. The child had suffered from numerous contagous diseases and pyogenic infection and vast in a severe state of malnutrition. Two of the softened nodules had ulterated through and were found to contain calcum carbonate and calcium phosphate. Cultures remained series when the soft of the contained the contained series when the lime salts were embedded. The etiology is very obscure.

This is a true case of calcinosis These cases are very rare, and only a few have been reported The danger lies in the ulceration and the resulting infection C G GRUILE

Schüfe Treatment of Furunculosis (Zur Behandlung der Furunkulose) Minch-n med Wehn schr 1912, l, 2458 By Surg , Gynec & Obst

A single furuncle can be cured in all cases if the center of it is cauterized deeply enough and early enough, 1 e within the first 48 hours. A wheal is formed on the margin of the infiltration with I per cent novocam solution the center of which is then punctured and novocain injected into the subcutaneous tissue, the wound is then deeply cauterized and tamponed The fully developed furuncle is not influenced by cauterization Prophylactic treatment is epilation of the infected area, inunction with Crede's salve, washing with spiritus saponato calcinus or spiritus absolutus, followed for two weeks by inunctions of zinc salve For carbuncles, cross incision with the Paquelin cautery is advocated C S TALBOT, IR

MISCELLANEOUS

CLINICAL ENTITIES—TUMORS, ULCERS, ABSCESSES, ETC. Fraser A Possible Test in the Differentiation

Between Human and Bovine Types of the Tubercle Bacillus Brit M J, 1912, Nov., 1432
By Surg, Gynec & Obst

The author states that by injecting an emulsion of the bacilli preferably into the knee joint of the rabbit a ready differentiation between the human and bowne tubercle as at hand If the human type is injected, the rabbit continues to put on weight or remains constant. No stiffness or joint pain ensues If the joint is examined three or four months later, the picture of a chronic synoval tuberculous joint is presented. If the emulsion is of the bowne type the changes are rapid and caute. In ten days the

animal is crippled, and there is progressive and continuous loss of weight Examination of the joint three or four weeks later shows acute synowial tuberculosis Fraser presents a table of 13 applications of the test to substantiate his theory. M S HENDESON

Shattock- The Microscopic Structure of Urate Calculi Pros Roy Soc M., 1912, vi 1

By Surg. (Spece & Obse-The proportion of cases of urate calculs is much less than that of ure acd calcult. The article contains a detailed account of various urate calculs, together with microscopic photographs of the same glomeration of sphertick held together by vestral mucus. The body consists of a regular growth of turther spherules deposited on the nucleus and held together by vestral mucus. The urate calculs consist of fine cystals which have a rod like or bacilliform character. These crystals are disposed radially form the properties of the control of the contains of the cystals are disposed radially.

When the organic calculus is dissolved in hydro chloric acid, a matrix is left in which is found some inorganic salts consisting mainly of phosphate and carbonate of lime. In regard to the nature of the matrix it consists wholly or in part of mucin

SERA, VACCINES, AND FERMENTS

Eversole and Lowman The Use of Carl Spengler's "I. K." Serum in the Treatment of Tuber-culous Joint Disease, with Report of Cases Am J Orth Surg 1912, 7, 234

By Surg, Gynec & Obst

The authors present a preliminary report on 10 cases of tuberculous joint disease treated with Spengler's "I K serum Twelve had pulmonary as well as joint movelvement many had abscesses, extensive bone destruction or sinuses and one had Pott's paraplega. The time of treatment varied from three months to a year and a half. All cases but one which ded from extensive lung awovement, showed rapid and marked improvement, pur toularly in weight and general condition, and in cases with sinuses the rapid decrease in the discharge scened especially marked.

The authors refer to improvements in technique since the report of a similar sense of treatments was not the report of a similar sense of treatments by Porter and Quinn (Am Jear Orth Surg., Feb. 1913), but do not explain what the improvements are not the details of technique used. Their conclusions which correspond to the very case expect Case is granted steadily, and general resistance seemed greatly raised.

Those with absorption from two foci seemed to become less and less toxic and gained just as steadily

as others, although not so rapidly Sinuses discharged much less and those that were

painful became much less so after "I K" treatment was instituted J L. PORTER

Vaughan. Blood Changes Caused by the Hypodermic Administration of the Cancer Proteid J Am M Ass., 1912, lx, 1764 By Surg., Gynec & Obst

Vaughan used vaccines in over 200 cases of rework are to rin operable malignant disease. This work was based on the belief that injection of any specific proteid within the human body would result in formation of specific ferments for the splitting up of each proteid. Cases with a marked decrease in polymorphonuclear and a corresponding increase in monounclear leucocytes received beneit from the vaccines. In cases which have been without vaccines are the specific processing the pretentage of the contraction of the order of the processing the pretentage of the processing the pretentage of the processing the process

Since vaccine freatment would benefit only a small petcentage of cancer sufferers, an attempt was made to produce an active ferment for splitting up of malignant cells in bodies of animals. Sheep and tablists were injected with cancer residue and cancer vaccine. The large mononuclears are invariably increased from 100 to 400 pet cent within 24 to 48

To ascertain what bearing this had on the forms ton of a specific ferment several robbits were sensitized to cancer cell and varying percentages of cancer-cell emulsion were injected intervaeously Rabbits with a percentage above 50 of large monuclears usually died within one to three hours. This is probably due to destruction of cancer cells and theration of their toxic radice by the specific ferment present in the blood serum, liter a reaction of the control of the

Sheep and tabbits were injected with cancer proted and their serum taken when the percentage of large monounclear cells was at its height and injected into 12 cases of inoperable carcinoms. In all candidathere seemed to be an improvement in the condition of the malignant growth, but the serum complextions were marked in over 50 per cent of the cases

To avoid serum complications the specific ferment was removed from the large mononuclears by solution. As small an amount as 1 cc of this leucocyte extract injected directly into the tumor may cause sudden and severe symptoms. L. G. Dwan

Lamar Chemo-Immunilogical Studies on Localized Infections J Exp Med 1912 xv1 581 By Surg , Gynec & Obst

Lanz has shown in order papers that instruces of immune anipneumococic serum odum olett, and home acid have a highly bernfroid action in class of localized piecemococic infections. During the search for an "optimum mixture" Lanzar has attempted to apily this method of treatment to localized sufection which closely simulates pneumococic infection in man. Pneumococic menuiosis in monkeys was found to resemble closely in pathological and clinical features the same disease us the human, and it is the work on these cases which is reported in this paper. As a control, 7 animals were

injected, by lumbar puncture, with o i cc. of a diluted broth culture of a virulent pneumococcus A rapidly latal meningitis and bacteramia was produced in each instance (15 hours to 4 days) Lleven experiments were made with immune antipneumococcic serum injected into the spinal canal Each animal first received o 1 cc of broth culture of the same strain used in the control series The experiments showed that immune serum has a distinct though slight retarding influence upon the infection When administered within two hours after moculation it prevented the growth of the organisms in two cases. When given later the first injection seemed to retard the development of the disease but this influence was of short duration, and rapid development and death followed Nineteen animals were treated under exactly the same conditions of inoculation with a mixture made up of o r cc of r per cent aqueous solution of Merck's or Kohlbaum's sodium oleate o 2 cc immune anti pneumococcic serum and o 7 ec of 5 per cent aqueous solution of boric acid. An injection of this mixture was usually made each day of the animal slife or until the spinal fluid gave little or no growth of pneumococcus 2 cc were given at the first injection and as much thereafter as could be given without producing pressure effects this rarely falling below

The time of beginning the treatment after inoculation varied from 4 to 43 hours. The average number of injections necessary was 5 or 6. Nine animals recovered and ten died. Three animals died of a "relapse" after appirent recover. Three animals died very quickly aftir, innocultion 120, 13 and 13 hours) seeming to offer little or no resistance to the infection one animal died after 6½ days of pneumonia, the meningitis was found at autopsy to be arrested

These experiments show that the effect of the mature of softum older antipneumotoccus serum and bote acid is much greater than that of the immune serum alone. Lamar believes that the use of the mature in human infections may prove of great value since it has been shown that the number of strains of pneumococci is not large.

TAMES I CHILECTRILE

BLOOD

Levison The Treatment of Hæmorrhagic Conditions with Normal Human Blood Serum. Inter M J 1912 xrt 934

By Surg , G) nec & Obst

Levison mentions fifteen or ixenty diseases in which himorrhage is a symptom but he limits his temarks to those diseases of childhood in which himorrhing dominates the picture – himorrhingica neonatorum himophilis, Bubl's disease and pathology feers—in mone of these diseases has the pathology feers—in mone of these diseases has the pathology feers are more of the diseases themselves have not been accurriely classdiseases themselves have not been accurriely classdiseases themselves have not been accurriely disa-

organisms may be the etiological factors, but this is not definitely proved

It is essentially true that one of the principal factors in all these diseases is a disturbance of the chemistry of the blood, leading to instability in the congulation mechanism. The chemistry of normal congulation is not clearly understood. Levison discusses in detail the 76b of thrombin prothrombin kinase and calcium salts and correlates the important facts from literature beriang on this subject, without however adding any new experimental data.

All efforts to check hemorrhage by the use of calcium gelatun adrenalm, and styputes hate power unsatisfactors, and furthermore the use of animal serum has not furnished desired results. In the use of animal seru one runs all the risks that are inherent in the administration of an alien serum. Human strum on the other hand never produces tower results and whould invariable be used in all hemorrhages of shidhood. Levison advices that large quantities of serum should be employed and that the use of the serum should be employed and that the use of the serum should be continued until the harmorrhage has easeed. M. G. Strum

BLOOD AND LYMPH VESSELS

Hesse The Use of Blood-Vessel Sutures in the Resection of Aneurysms of Peripheral Vessels, in Traumatism of Vessels, in Varicosity and in Anglosclerotic Gungrene, Based on 58 Cases Rough Variety 1912 in 1708

By Surg Gyner & Obst

1 Blod tessed saturing of cases of aneurisms case 1 Audier (consult) 4 de ktur 1911 vir p 400 strictionenous aneurysms of the femoral execute Separation of the two essels separation of the two ends cure Crises 2 and 3 vers large aneurismal sace siter ablation the loss of substituce of the artery was too great to allow a pinction of the two ends I was impossible to sufferious end in the substitution of the two ends it was impossible to because of its small cubbs. The ends of the artery ware ligated separatels (ure followed in both class)

2 Blood trasel suture in cares of suscular leanum; Blood trasel so use sturpe in only one case, of activitatal wound and in this case the anterior portion of the cubrical artery, which was very large had been secred. He tranvick that grained of the wounded artery would have been appared on the wounded artery would have been of suture, of vessels impured in the rouse of operation of a tranvice and the results of suture, of vessels impured in the rouse of operation with were each twice sutured with complete success.
3 Blood tratest sutures: no case of irreconties

Ifty one cases are reported in which Delbet's operation was performed. There was one death, all the others recovered with excellent functional results 2½ years having intervened in some of the cases.

4 Blood tessel sutures in angiosclerotic gangrene. In this case an old man showed beginning senile gangrene in his left leg, accompanied by very severe The pulse was not perceptible in the popliteal fossa and the foot was cold The arteriovenous anastomosis was performed between the femoral artery and the long saphenous year, but a small tear in the wall of the vein led to a hæmorrhage, and upon the application of suture an obliterating thrombus was formed in the vein at this point

Hesse incised the vein and removed the thrombus but it at once reformed. He then undertook to use the femoral vein for a new anastomosis subject two femoral veins were present, he was en abled to perform a terminolateral anastomosis with one of them, the vein at once began to pulsate and. as is usual in these cases an immediate improvement The limb became warm again and the pains diminished. This improvement lasted for 11/2 months during which time the gangrenous portions became demarcated and were removed Then the condition became worse and it proved necessary to amoutate the limb. It was noted on operation that venous blood flowed from the veins and that no pulse was present in the femoral veins The lumen of the artery was filled with atheromatous material. Hesse states that Wieting's operation is ineflicacious, and that such improvement as is seen following it (lessening of pain and warmth of the limb) is due not to the re-establishment of circula tion, but to the stasis which follows the stoppage of the senous outflow M C PINCOFFS

POISONS

Burnet The Virulence of Bacilli Tuberculosis and the So-Called Attenuated Forms of Tuberculosis (La virulence des bacilles tubercu leux et les tuberculoses dites atténuées) Ann d I Inst Pasteur 1912 XXV1 Nov

By Journal de Chirureie

There are attenuated forms of tuberculosis This is proved by the exquisite susceptibility of primitive people, by the relative resistance of Europeans to tubercle bacilly and by the fact that man may succeed in overcoming a benign infection which leaves him vaccinated The author attempts to prove the existence of bacilli of attenuated virulence Are the bacilli which cause local tuberculosis (joint cutaneous glandular, etc.) bacilli of attenuat ed virulence? No Burnet has injected these bacilli in susceptible animals and they have proved to be as virulent as those of sputum, and in some cases to possess even greater virulence. Are these bacilli of attenuated virulence of the bovine type? No Notwithstanding certain facts published in foreign journals in 35 cases of bone joint, and cutaneous tuberculosis and in 23 cases of glandular tubercu losis he was not able to detect in a single instance the presence of boyine bacilli. In many cases we may seek the explanation either in the inoculated quantity of microbes in the greater or less resistance offered by the soil or in attenuations of as yet ob scure cause of germ virulence. He admits that the

gravity of the tuberculous injection depends nor only on the quantity, but on the quality of the in corporated germs. He shows that inoculation of tuberculous material often remains negative and still in these cases there is neither absence of bacilli nor presence of acid resisting agents. These are therefore, attenuated bacilli, either from the time of their penetration into the organism or from a process of cure in the organism injected

He reports a case of a young man 19 years old who since childhood has had a torpid tuberculosis upon the external surface of the foot, leg, and knee In moculating guinea pigs and monkeys with some of the diseased tissue he found that the microbes produced in these animals only absolutely benign lesions, which they survived a long while differing in this respect from the rapid death of control an imals inoculated with virulent bacilly

There seems to exist a tuberculous subflora, the rôle of which in tuberculous disease is as yet un determined. These facts explain the cases of spontaneous immunity to tuberculosis and confirm the possibility of artificial vaccination P GRUET

Warfield Bismuth Possoning fm J Sciences 1912 exliv. 647

By Surg . Gymec & Obst

After reporting and discussing the symptoms and the theories of bismuth poisoning as observed and promulgated by kocher, Feder Meyer, Mory, Dalché and others some of whom carried out experiments with hismuth salts, the author reports a case of poisoning from injection of about two ounces of bismuth subnitrate into an illopsoas abscess The patient, a white girl of 9 years, was admitted to the hospital September q 1911, com plaining of a sore mouth. Her surroundings were of a squalid nature one of her parents had syphilis before the child was born, and in all probability the other parent was infected likewise, one sister, aged 7 had died of generalized tuberculosis. The patient had never been a robust child

I diagnosis of tuberculosis of the spine was made Treatment for one year on a Bedford frame followed during which time an iliopsoas abscess developed This was incised. In November 1010 about two gunces of Beck s paste was injected into the result ing sinus which promptly closed no paste having been extruded. Within two weeks a black line appeared on the gums. This has persisted fluctuat ing in intensity In August 1911 an ulcer appeared on the cheek opposite the upper second molar Later ulceration occurred along the right side of the tongue. In the routine examination it was noted that the lymphatic glandular system was generally enlarged especially the cervical glands. The breath was very fetid the tongue coated with many carious teeth in the lower jaw the front teeth being rough on the cutting edges but not notched, on the gum margins of both jaws, inside and out, was a dark violet line 1/2 cm in depth, which did not reach quite to the free border. The line was

smooth and somewhat glistening. The teeth were not loosened and there has very little porrhera ah; colaris. The tongue was beauly coated, and along its whole right edge was a blusth black discoloration about 2 cm. wide. Along the central line of this patch was a whitsh loak discoloration about 2 cm. wide. Along the central inne of this patch was a whitsh opaque diphtheretic membrane, on the buccal surface were two discolored plaques, one near the angle of the mouth. A whitsh necrotic membrane covered about half the surface of the ulere

An X-ray of the lumbar region showed an irregular shadow corresponding to the paste which dan not appear to be much encapsulated The Nagueth reaction was negative on two occasions R B C, \$600.00, W B C, 14,500, H B, 100 per cent for the recorrections was evidently due to provide the control of the control

The patient gradually improved, and on February 10, 1912 was discharged, the tongue being normal, slight discoloration at the seat of the ulcer, and the

line on the gums still present

From the cases reported, the author deduces rather a typical picture which differs from lead or He recognizes three stages - the first, benign when the violet black line only is present, second, moderating severely, with stomatitis, more or less acute followed by a chronic condition with discoloration of the gums and tattooing of the burcal mucosa, third, a severe form characterized by a more intense stomatitis, the gum margins ulcerated secondary infections supervening and general symptoms present Characteristic of bismuth por soning is the violet tinge to the line and in the more severe forms the presence of a diphtheretic membrane The plaques appear anywhere on the mucous membranes preferably on the parts in contact with the teeth A cessation of bismuth absorption brings about an immediate improvement Albumin casts and bismuth may be found in the urine The author concludes that the poisoning is due to the bismuth, and not to the nitrates or other salts such as lead or mercury

H A Ports

SURGICAL THERAPEUTICS

Schepelmann. Oil in Abdominat Surgery Arch
f klin Chir, 1912, xxix, 4

By Surg. Gynec & Ohet

The author concludes from the results of his researches on animals with intrappentioneal injections of camphorated oil, olive oil and oil in which bactericidal substances were incorporated (soft menthol 25 per cent), that the use of oil in abdommal surgery is not varranted in the human being until more work in this direction has been done to justify such therapy E. S. Talkor, Je.

¹ The abstractor takes the liberty of calling attention to the frequent masse or the words pyorrhota alveolars this appellation belongs to phadenic percenentiate.

Royster: Wright's Solution in Infected Wounds. Internal J Surg, 1912, xxv, 343 By Surg, Gynec & Obst

The imperfect drainage of wounds by rubber tubes, gutta percha and cigarette drains led the author to try Wright's solution, or fotto sodu citratis. It has the following formula. Sodu citratis, it grains, sodu chloridi, 20 grains, aquæ, q s ad, 1 fluid ounce.

The sodium citrate dissolves the plasma or abuminous substance which is thrown out from the inflamed tissues, while the sodium chloride by its osmotic action keeps up a continuous flow of serum, which washes away the wound products. In other words, the sodium citrate prevents coagulation and the sodium chloride produces irritation.

The author has used the lotion in dense phlegmons, which have cleared up remarkably without the usual multiplex incisions. He recommends it in gunshot wounds, infected hands, arms and legs, also

in empyema and cellulitis

The manner of applying the solution is very simple. It is used cold as made up according to the formula and poured into a clean basin. Several layers of gauze are saturated in the solution and laid over the parts A covering of oiled silk may or may not be employed, a thick dry dressing may be suffi-The gauze next to the wound is to be kept most for such a time as may be necessary. He has never seen any untoward irritation and has not heard patients complain of any pain from the application. He does not believe the solution should be continued beyond the point of cleansing the wound and getting rid of all the products of infection his experience the solution rather retards healing after its work is done, and it is wise to discontinue its use when the wound has ceased to discharge and when granulations begin to appear

E L CORNELL.

Lieber Burns and Their Treatment (Die Ver brenhungen und ihre Behandlung) Beitr z klin Chir 1912 kxxx Vov By Surg Gynec & Obst

Many theories have been advanced to explain the cause of death in burns. Of the older ones grave damage to the blood destruction of the skin - an important organ for the excretion of poisons, embolic phenomena, and fat embolism may be mentioned Newer theories attempt an explanation upon the basis of the formation of a toxic substance The reflex theory of Sonnenburg and that of Laskewitsch, namely a reflectory lowering of vascular tonus great dilatation of the vessels and resulting dissemination of heat leading to subnormal temperature, deal with phenomena which in reality are due to shock. Falk assumed disturbances in the mechanism of the circulation due to dilatation of the peripheral vessels, with resulting increased work for the heart and final paralysis Paralysis of the heart as a sequence to excessive heat was assumed by others Lesser and others emphasize the damage to the blood in the form of an acute functional oligocy themia The red

blood corpuseles become unit as oxygen carners. Likes showed first that maly to the when there ears are braited to 50 to 60°C by immersing in hot water. If the ears are crediered to odde's before the procedure, much higher temperatures may be exployed with immonity. Likely believed this to be due to thrombo-embolic pheromena. These findings were not verified in man.

According to the intoxication theory the poison may be formed in the blood in the skin or may be the result of a change in metabolism indicated by increased toxicity of the urine. The rabbit ear experiments of klebs can be explained by assuming the formation of a poison in the blood. Even the parabiosis experiments recently performed cannot rule out this possibility. In parabiotic animals intoxication of one also produces symptoms in the other The animals were connected after the symptoms in the other The animals were connected after the symptoms of intoxication had disappeared No changes in the blood occurred in the sound ani mal. This merely proves that the toxic substance is not a blood poison, but does not exclude the blood as a source of the poison Dieterichs maintained that the damaged red blood corpuscles act as antigenes in the individual sown blood producing specific hamolysins. This has been disproved by subsequent experimentation Burkhard found that the spontaneous hamolysis occurring in the blood after burns is a consequence of direct heat action ution the erythrocytes. Another group of investi gators thought the skin to be the slat of toxin forma When fatal burns were produced in animals and the burned portions of skin were at once removed, the animals survived. Control animals died Parasenadolo arrived at the conclusion that a cyto toxin closely related to snake poison is produced in the organs of burned individuals. Weidenfeld thought to explain the relationship between the amount of skin destroyed and the prognosis upon this toxin theory. He found that this toxin is soluble in water Hymanns reports a case which is equivalent to a parabiosis experiment. A priminara gave birth to a child immediately after suffering a severe burn The child was asphyetic and remained comptose long after the cyanosis had disappeared and while respiration and heart action were normal The mother also was comatose during labor. She had no recollection of any pains, despite being a primipara It is quite apropos to assume that the tox n produced by the burn crused the coma in mother and child Others endcavored to find the poison by analysis of the products of metabolism hased upon the discovery of Reiss that the urine of burned persons is poisonous and causes the same symptoms as the burn itself Pfeiffer showed that not only the urine of burned persons but also their serum is poisonous. The toxicity of these ascend in different curves The urine reaches its greatest toxicity in 24 hours, from then on this rapidly decreases while the toxicity of the serum gradually and constantly increases up to the time of death

These numerous experiments and theories they one fact only with certainty, namely, that deep following burns is due to an autointoxication. The nature of the porson has not been determined Changes in the Lidneys are most frequent - hiper zmia parenchymatous degeneration, finally pphritis with granular and blood casts. Heart and liver are also involved. If the toxin acts for a longer period of time ecchi mosis in the murous membrate of the gastro intestinal tract and duodenal closs s observed. These changes occur in 20 per cent of the cases according to Birch Hirschfeld All these findings resemble much those seen in rapidly fatal cases of possoning and in the infectious diseases The nature of the changes is identical with those in the infectious diseases. Valentin found desquamation and necrosis of the cells in the thyroidits,

exactly as in scarlet fever, measles, and diphbone symptoms and chincid course. Subnormal ten pratture is a sign of shock, and does not occur as oftener in burns than in other grave injunes. Fest a frequent samptom. The temperature shows in frequent samptom. The temperature shows a frequent sample may be a subnormal tenth of the sample of the sample

The rise of temperature is due to the torin and is not caused by infection. The temperature shows a curve which permits its distinction from fever due to infection Infectious rises are of much longer duration Toxic fevers are associated with symptoms which are absent in infections. The patients are apathetic even somnolent, in grave cases singul tus and comiting are present. These symptoms dis appear with the initial toxic fever. The prognosis is worse in children Weidenfeld has shown that the body surface of the child is disproportionately large in comparison with its weight. If one third of the surface of an adult can produce enough poison after a burn to cause the death of the patient, one ninth of the surface of a child burned may produce the same effect. Death as a direct consequence of a burn occurs within the first six days Later occur ring fatalities are to be attributed to complications In rare instances children die on the twelfth or fifteenth day while apparently convalescing very nicely Autopsy gives no satisfactory explanation . of the cause of death. These cases have been attributed to anaphylactic shock. However, the autopsy findings characteristic of anaphylactic shock were absent in these patients

Leber describes the treatment used in the service of Lotherssen during the years from 1900 to 1912. This latter is the following for hums of the first degree, careful cleansing with sponges dipped in benam and subsequently application of sterile bortted vascine or takeum powder with sterile gause For burns of the second degree, the same cleansing, based incision and evacuation of blebs, application

of novozodine powder and anæsthesin, sterile gauze A bath is given every second day if the patient's condition permits Removal of the dressings during the bath. The treatment of burns of the third degree is practically the same General treatment consists of caffem, camphor and digalen subcutaneously, normal saline up to 4 litres daily, subcutaneously or per rectum Large quantities of fluids are given by mouth Morphin is absolutely avoided, as it interferes with the heart action The continuous bath is likewise no longer employed Some case histories of extensive second and third degree burns illustrate the efficacy of this treatment. The mortality has decreased under the new form of treatment E C RIEBEL

ELECTROLOGY

Radiological Demonstration of a Haudek Gastrocolic Fistula. Wien med Wehnschr , 1912, By Surg , Gynec & Obst lxn, 3104

The patient, a male 32 years of age, gave a history of long standing stomach trouble. There was strong evidence of malignancy although a positive diagnosis had not been made. An X ray picture after the ingestion of a bismuth meal showed that the jejunum was not normally filled, and the shadow which was obtained on the screen appeared to corre spond to the transverse colon. The patient was then given another test meal. After six hours Haudek found that the stomach and the small in testine were empty but that the colon was filled with bismuth as far as the sigmoid flexure of the rectum A new radioscopic examination proved conclusively that there was an abnormal communication between the stomach and the transverse This was shown by the presence of an ab normal shadow 1 cm long and 1/2 cm wide Since the pyloric portion of the stomach did not fill and the duodenum and small intestines were practically free from food a cancer of the stomach associated with a secondary gastrocolic fistula was assumed although chincally there were none of the classic signs of this fistula. The patient did not vomit fæcal matter nor was there fæcal matter in the stomach, profuse diarrhoa was absent. An exploratory incision revealed the presence of a scir rhous carcinoma of the pylorus which adhered to the transverse colon. The involvement was so extensive that removal was out of the question A post mortem operation revealed an abnormal communication between the stomach and the transverse colon

In a work published in 1900 Zweig gathered 61 cases of gastrocolic fistula In 35 of these there was cancer of the stomach, in 14 gastric ulcer, in 5 cancer of the colon, in 5 there was a localized peritonitis once a tuberculous ulcer and once the fistula was congenital Haudek has observed two further cases of gastrocolic fistula One of these, associated with carcinoma of the stomach, opened into the colon, the other, which had been operated

by von Eiselsberg in 1907, was associated with a A B KANAVEL secondary peptic ulcer.

Herxhelmer: Cure of a Case of Sarcomatosis of the Skin by Thorium-X (Hedung eines Falles von Hautsurkomatose durch Thorium X) München med II chuschr , 1912, 1, 2563 By Surg , Gynec & Obst

In the clinic for diseases of the skin in Frankfort a R , 25 patients were treated for psoriasis, dermati tis exfoliata, and carcinoma of the skin with up to seven injections of thorium X, given at weekly intervals, without any accidents resulting. In the case reported in detail by the author, the diagnosis was multiple sarcoma of the skin in a man <8 years Injections of thorium-X in doses of 1000 electrostatic units were given once a week, after the first injection the condition was unchanged, after the second the smaller nodules on the head and extremities grew visibly smaller and the largest, especially on the thorax, showed a central softening After seven injections the skin of the entire body, as well as the mucosa of the oral cavity and pharynx, were perfectly normal. There is no doubt that in this case the sarcomatosis was cured by thorium-X injections, given in small doses at long intervals under slow disappearing pigmentation Blood examinations showed that lymphocytosis excited by the thorium X played an important part in this cure It remains yet to be seen whether the result will be permanent E S TALROT IR

Hertz Common Fallacies in the X-ray Diagnosis of Disorders of the Alimentary Canal Arch Ront Ray 1912, XVII Nov

By Surg Gynec & Obst

Gastric stasis The presence of bismuth in the stomach four or more hours after the hismuth meal is indicative of stasis only when nothing else is taken up to the time of examination

Duodenal kinks Conditions described as such are invariably the result of posture or the accelerated evacuation of the stomach associated with such

conditions as duodenal ulcer

Heac kink This condition is often simulated by obtuse bends of the lower ileum upon different planes and the usual temporary obstruction there due to the tonic contraction of the ileo-cacal valve interpreted as stasis Kinks at the hepatic and splenic flexures

forward and backward bend at these parts, pictured on a single plane is responsible for error

Intestinal stasss Lack of previous cleansing may cause stoppage of bismuth by mechanical obstruction offered by fæcal concretions The bismuth meal Too much bismuth given may

cause distortion by its own weight. Two ounces is sufficient

The bismuth compound used may affect the rate of motility The carbonate tends to neutralize the acidity of the stomach contents, and thus retards the time of its evacuation more than inert salts, such as the oxylodide of bismuth or barium sulphate. Psychic influences govern the movements of the gastro intestinal tract. Palatable mixtures give more normal findings than distasteful ones.

Apolph Harring

Hinisch: The Röntgen Framination of the Large Intestine. Arch Rönt Ray, 1912 884, 208 By Sure . Gyner & Olyst

The author deals especially with stenotic conditions of the large bowel caused by tumors not adjacent to it, by kinks adhesions and twisting, and by nervous sparm. He advocates dusorose the examination with a bismuth enima, observing it both as it enters and as it is evacuated. When points of special interest are visible he supplements his examination with the radiogram. He convolved duplicate similar findings absolutely essential for accurate conclusions.

Interference with the flow of the injected bismuth forms the bissis of the value of this method in diagnosis. In the case of tumors, the defect is constant and definite, whereirs spisms give variable findings Adhesions usually cause a gradual narrowing of the

lumen extending over some distance. The presence of kinking or twisting of loops, causing obstruction to the flow, may be diagnosticated where position or manipulation markedly alter the apparent stenosis.

After citing a number of cases, in most of which is findings were verified by operation, the author reaches the conclusion that his method of etamination and materially in accentaning pathologic conditions of the large intestine and, used in conjunction with the clinical symptoms and history, gives the conditions. Amorter Harty is, and the conditions.

Amorter Harty is,

SURGICAL DIAGNOSIS

Vogel Phenolsulphophthalem in Diagnosis of Kidney Lesions Bril him lichniche, 1017, 1222 No. By Surg, Gynec & Obst. The author confirms the work done by Rountree and Germalia, 10 Pr. Nounes a claw Raltimore. He

The author confirms the work done by Rountre and Geraghty in Dr Young schinic, Baltumore He hads the test valuable, but it takes at leart four hours for the excretion of the maximal sum of the substance (60 to 85 per cent), and 14 hours as total time

GYNECOLOGY

UTERUS

Baldwin. The Cure of Prolapse of the Uterus and Bladder by Plastic Operation. V 1 11 J. 1912 xcv1 952 By Surg. Gynec & Obst.

The author's operation is a modification of the one described by Emmet and is applicable to all degrees of prolapse, being best suited however to women beyond the child bearing period. He has done it on a few before that time. The operation is done with the patient in the Sims position, using the Cleveland speculum After curettage and any necessary work on the cervix, the uterus is held in normal position by suturing the anterior hip to the fenestra in the tip of the speculum Three points are now selected on the anterior wall, one on each side of the cervix and one just below it The lateral points are the important factors. They are well out under the bases of the broad ligaments, and some force is necessary to bring each point to the middle of the cervix These points are then denuded of mucous membrane for about one half to three quar ters of an inch and their lateral edges united, making a broad surface of denudation. Two silver wire sutures are now passed deeply under the denuded area - the author lays stress on passing the sutures deeply - and are twisted, making a firm bridge below the cervix firmly holding it in the hollow of the sacrum The cystocele is then attended to by denuding two crescentic strips down the antero lateral vaginal walls and suturing with silver wire A permeorrhaphy is then done of whatever type the perineum requires Up to January, 1909 the author operated upon 56 women. These were investigated 36 being heard from Of these 36 there were only two fadures One of the fadures was in a woman who bore two children subsequently Sub sequent operations have not been tabulated

The advantages claimed by the author are that this operation restores as nearly as possible the size and shape of the vaginal canal that it is free from operative mortality, is attended with very little suffering and achieves a large percentage of sympto matic and anatomical cures Gorgoo Gisson Citison.

Goffe An Operation for Extreme Cases of Procidentia with Rectocele and Cystocele, Based on Anatomical, Physiological, and Dynamic Principles, with Report of Cases Med Rec, 1912 Ixxxx No. By Sure, Gence & Obst

A knowledge of the cause of procidentia with its accompanying complications is the first step in solving the problem of its relief. We now know that the support of the pelvic organs conforms to nature's general plan of holding organs in place, which is by surpension from above by means of ligaments.

The great force to be controlled is intra abdominal pressur. This is done by two systems of reflecting and deflecting planes. One is represented by the uteris and its broad lagaments, and the other by the pelver floor. These two planes receive, deflect, and distribute this force in such a way as to direct the resultant into the line of expulsion, i.e. the pelver distribute the fits same time preserve visceral sup-

port and equilibrium In cases of procedentia in which the uterus is retained, a e previous to menopause, the deflecting plane is maintained by shortening both the round and uterosacral ligaments, the uterus should not be fixed in position By plicating the ligaments, their functions are retained and the deflection of intraabdominal pressure secured To reheve the cystocele, the bladder is dissected free from all its attach ments except that of the perstoneum. It is then carned up and stitched to the anterior face of the uterus and broad ligaments in such a way as to take in all the slack in the base of the bladder and restore the normal fixation of the trigone. The rectocele is relieved by restoring the floor of the pelvis by the usual muscle operation. When the rectocele is extreme, the anterior wall of the rectum is laid bare previous to the restoration of the levator muscles and plicated with one or two running sutures of chromic catgut. In patients at or beyond the menopause the uterus is removed and the deflecting plane is restored by stitching together the broad ligaments across the pelvis, care being taken to secure in these stitches all the supporting ligaments of the uterus In this way the ligaments continue to functionate and thus preserve the deflecting properties of this plane of tissue Upon the anterior face of this plane the bladder is spread out and stitched as previously described

Twenty nine cases are reported in detail Some of the cases were of seven years' standing, others of four and three, and the balance of over two years' Twenty four had been subjected to examination just previous to the reading of the Among these cases are 11 patients between 50 and 60 years of age 4 between 60 and 70, and one at the rare old age of 75 years at the time of operation In not one of them had there been sufficient reaction following the operation to demand any departure from the regular routine of after treatment Convalescence has been surprisingly smooth In not a single case has infection occurred. Catheterization as a rule is not continued beyond the second day If prolonged, the patient is gotten out of bed and on the commode by the fifth day

In estimating the indications and the value of this operation, the following points were considered

(1) The permanency of results, (2) the age of the patient in reference to shock, (3) the character of the convaluscence, and (4) the restoration of physiological functions. Of the 24 who presented themselves for examination, there was not one that showed the slightest tendency to recurrence, and all give most flavorable reports of improvement, not only in their abovable reports of improvement, not only in their

local condition but in their general health In regard to the bladder 3 who had had annoying incontinence previous to operation reported a cure, 5 reported a slight irritability of the bladder listing from three to five months after the operation, but not present since Dr Osgood, the exstoscopist at the Woman's Hospital has cystoscoped the bladder of all patients subsected to this operation both before and after operation. He reports complete restoration of normal condition in the interior of the bladder I wo of the patients examined at the office had passed through confinement two years after the operation One had twins, both had normal labors and in neither one was there the slightest lesion of any kind. All the different procedures in the operation had held perfectly

Vineberg. Find Results with Various Operative Procedures for Procidentia and Fatensive Cystoceles Prior and Subsequent to the Menopause Am J Obit N 1 1011, Ivi No. By Surg Gynce & Obst

This article is written with particular reference to the "sagnofixation" or interposition" operation on the uterin. The author briefly reviews the his tory of vaginal operations in America for displace ments of the uterus. The tichnique of the interposition operation is not described but several reposition operation is not described.

points are emphasized "In extensive cystoceles it is essential in order to obtain a good permanent result, to separate the bladder freely medially and laterally from the cervix and base of the broad ligaments. To accomplish this the 'bladder pillars have to be severed be tween two ligatures. To merely separate the bladder in the median line as advised by Watkins and others, invites a recurrence of the cystocole at the outset, for it leaves pockets of the prolapsed bladder at either side of the cerus which in a short time increase in size, and form what might be called a double cystocele The writer deems it important also, with a very few exceptions, to perform a high amputation of the cervix, for when this is not done the cervix acts like a wedge and a recurrence of the prolapse is very prone to occur "

Where the uterus as very large and thick, Vine berg prifers to do a subtotal excision of the uterus "leaving as much of the lower segment of the uterus as possible, together with the curvis, and employ ing this residue of the uterus as a peloite for the bladder by suturing it to the vaginal wall, as near to the urethral meatus as possible"

Of 45 cases observed for two years or more, "in not a single instance has there been a recurrence of the prolapse or of the cystocele. In 3 cases there was

a recurrence of the rectorele about 1½ inches above the posterior commissure, showing either a faulty technique in the posterior colporniaphy, in that the demudation was not sufficiently wide at the upper part, or a too early absorption of the deep catgut sutures Latterly the writer has employed chromicized catgut for these sutures"

The author next describes his vaginal operation during the child bearing period, vaginal situring of the round ligiment, originally published in 1500 Seven cases thus operated upon have been traced Results in all but two were excellent. A recurrence of the cystorectorele took place in one and a slight protrision of the vaginal wall in the other. One matient based through subsequent preferance and

spontaneous labor without a recurrence.

Vineberg has used a modification of Olshausen's method of suturing the round ligaments to the altolomial will in his abdominal work for prociden tia during the child bearing period. The results have invariably been so good that he has been content to employ it for the past fifteen years to the erclusion of all olicher methods. It must be accompanied of course by suitable plastic repair of the superior will be technique corresponding to fine the continuous processing to the continuous processing the procesi

and another having one Pregnancies labors and

puerpena were normal in every respect. In none of these 17 cases has there been a recurrence of the

procedentsa or of the exstocele

CARRY CLUBERTSON

Critchlow Comparative Results of the Various Operations for Supporting the Retrodisplaced Uterus, and the Best Method Chipman 1012 XXX 101 By Surg Gynec & Obst

The author briefly outlines development of surgical measures for this condition presenting the claims for the Mexander Baldy Webster the Gilliam and its severil modifications and notes the various procedures by the vaginal route

His conclusions are that no one operation can be labeled the best selection of method depends on individual conditions, he is strongly committed to an individual conditions he is strongly committed to keep the constraint of the same and th

of the sarous intra-abdominal methods for correcting retroversion the author prefers; implant ing the round ligaments in the abdominal wall after the method of oillibin as modified by Crossen. Its advantages are it is intra abdominal, it uses the strong proximal portion of ligament, the resultant full is forward rather than lateral, as in Advander, elevation and support are sure, no abnormal bands endanger the intestine as in ventral suspension, pregnancy may safely follow

The greatest drawback of the Alexander operation is its extraperitoneal feature, which prevents exploration. It may be used if some reason exists which contraindicates abdominal section, provided complications can be excluded

Frankl. An Argument for the Promotion of Early Operation in Cancer of the Uterus (Em Vor schlag zur Forderung der Fruhoperation bei Gebar mutterkrebs) Wien klin Wehnschr, 1912 By Surg , Gynec & Obst

This is the report of cases from the Schauta clinic in Vienna from 1001 to 1012 inclusive It includes 1007 cases, of which 498 were operable and 34 were beginning cases The tables will probably demonstrate the results of this operation better than anything else would

TABLE I

Year	Total number of general cancers observed	Operated according to Schauta	Operated according to Nertchen	Total number of beginning cervical	Beginning cases free from recurrence after 3 years	Reginating cases deaths	Beginning cases dead from other dueages or lost track of			
1901-02	116	47	-		1					
1902-03	95	47 29	- 1	4	3 1 1 2	1	-			
1903-04	95 88 96 82 87	37 49 49	۱ -		ī	-	-			
1904-05	96	49	(-	3	1	-	2			
1905-06	82	49	1	4	2	-	2			
1902-03 1903-04 1904-05 1905-06	L 87_	47	1 6	1	l –	-	1			
TABLE II										

TABLE II											
1907-08	84	28	13	3	21	-	1				
1908-09	94	50	1 4	1 3	22	- '	1				
1909-10	88	59	2	4	32	1	-				
1010-11	80	-	۱ -	6	- 1	1	۱ –				
1011-12	90	-	~	4		-	-				

Examination after 4 years
Examination after 3 and 4 years
Liamination after 3 years

As a means of early diagnosing of this condition he advises the establishment of stations in every district throughout the Austrian Empire where the tissue from curettements can be examined, and he thinks in this way early cases of cancer can be diag nosed which would otherwise be overlooked

Wilcox The Undeveloped Anteflexed Uterus and the Sterile Woman. Chiroman 1912 Exix, 183 By Surg , Gynec & Obst

The author showed that in the embryonic devel opment of the tubes and ovaries the uterus was the last organ of the pelvis to be developed, that it was formed by fusion of the two tubes, that a partial transverse division of this tube produced the fundus and cervix, hence the tendency to a flail-like union between these two portions of the uterus

The early development of the ovaries and the later development of the uterus make possible the undeveloped or infantile uterus with the presence of well developed ovaries The possessor, therefore, is not in any sense an asexual noman, but may be

quite the contrary The majority of writers attribute an infantile uterus to an acute anteflexion, due to a relaxed state of the uterine supports and a consequent deficient blood supply to the fundus The author's theory is that the whole trouble is a developmental defect at the point where uterus and cervix join, but the real agent which tends to fix this helpless uterus in the acute anteffexed position is not the relaxed round and broad ligaments, but rather a pair of rigid, undeveloped sacro uterine ligaments, which, being inserted at the flail like cervico-uterine junction, tends to lift the uterus much as one would lift a boy by the seat of his trousers. This makes it really impossible for the fundus to raise itself, and at the same time interferes materially with normal blood supply to that organ

The heretofore recognized treatment has been cervical dilatation under ether, curettage, packing, stem pessaries, massage, electricity, etc., all good and many times attended with success, but failing quite as often, and the failure is due not so much to

a faulty method as to lack of perseverance

The truth is, there is no "short cut" to a cure of sterility or dysmenorrhora due to an undeveloped. anteflexed uterus Patience and persistence of intelligent effort alone will conquer. The patient should be given to understand that it will require 6 to 18 months to cure her

First, dilate uterine canal under Treatment ether and ascertain condition of endometrium - if polypoid or fungoid, etc., curette, but only if such be present, ascertain if sacro uterine ligaments are rigid - if so, massage and stretch them uterus canal with gauze tape, to remain 48 hours, then repack Repeat every alternate day for four weeks, then see the patient twice a week, dilating as much as can be endured without ether each time for two months, then, as improvement follows, see her once a month for six months Continue a year be-

fore giving up This treatment could be supplemented by intrauterine galvanism, the massage should accompany these treatments until there is a material giving way of the rigid sacro uterine ligaments

In a large dispensary practice the author has followed this line of treatment with entire satisfaction to himself and his patients

ADNEXAL AND PERIUTERINE CONDITIONS

Gelatinous Glandular Cysts of the Wilson Ovary, and the So-Called Pseudomyzoma of the Peritoneum. Proc Roy Soc M , vt, c

By Surg , Gynec & Obst Up to 1911 the author had operated on 331 patients with tumor of the ovary, among which were 144 glandular pseudomucinous cysts, with

only 6 typical cases of pseudomyxoma of the peritoneum, or about 4 per cent Gelatinous cysts of the ovary did not always give rise to pseudomyxoma of the peritoneum

In addition to the cases already noted of the 144 pseudomucinous cysts, there were 5 unruptured firm gelatinous cysts. In one case, after removal of a right sided cyst, in five months one developed in

the left ovary

Pseudomy.coma of the peritoneum occurs most requently between the ages of 40 and 60. It is uncommon in single women and is more frequently found in mittred multiparæ Menstruation is usually not affected. There is no way in these cases of making diagnosis of the exact nature of the condition.

The cyst under consideration is multilocular, filled with characteristic gelatinous material, trans parent, homogeneous, and either colorless or faintly tinged with yellow or green. They are divided by a very delicate transparent connective tissue, thinner than the tissue proper and lined by columnar secreting entitles. The Fallopian tube is generally nor

mal and unaffected

As to the gelatinous material it is alkaline in reaction swells up and gradually dissolves in normal saline solution and in weak potash, but is not soluble in acetic acid. In three cases it gave a positive test Toward the distal pole of the for pseudomucin tumor the loculi became larger and the capsule thinner The gelatinous substance has a tendency to be carried into the upper portion of the abdominal cavity, and is commonly found between the dia phragm and the upper surface of the liver, spleen, and stomach The parietal peritoneum is thickened, onaque, and has lost its gloss. Occasionally parts of smaller transparent prominences, like boiled sago greens, are seen Sometimes the endothehum of the peritoneum is intact, but more often it is lost, the filaments of this penetrate the gelatinous substance In a certain number of cases true implantation of metastases occur In one case there was found a metastasis in the lung

The only method of treatment which affords any chance of success is surgical removal. This should be accompanied by copious flushing with normal salt solution, which loosens the jelly like

As to the outlook it is grave Tendency to recur is martied, even though it seems possible to recur is martied, even though it seems possible to remove the whole tumor According to Straussmann of 33 patients operated on, 16 ded within four westla 5 cases reported by Wilson, one of them in which there were true metastases remained well for two years and then died of a proof subsection of the years, and then died of a proof subsection of the years, while the fourth was operated upon only in November, 1911

Following this exhaustive treatise on the subject is a very careful and minute analysis of each

C G GRULEE

Auvray: Spontaneous Torsion of the Normal Tube and Ovary (De la torsion spontance de la trompe et de l'ovaire normaux) Arch men d'essu e d gyn, 1912, July By Journal de Chrunge

In this paper the author considers only torsion of the normal adnex. He reports one case, a patient 14½ years old Menses were established one year earlier She was suddenly seazed with right saided abdominal pain, vomitting, with a tempera use of 38° C. A diagnoss of appendictis was made. After being treated mechcally for three weeks the patient was operated upon, and the appendix was found normal. An abnormal bloody discharge from the region of the internal gentalia led to their examination. The tube and ovary were tound tusted and were resected. Histologically, the account tusted and were resected. Histologically, the account of the control o

The normal adnera external to the abdomnal cavity can be itsisted. The condition is often mistaken for a strangulated herma of the internal gentials. It is usually noticed in very young children and in some cases with the first appearance of a herma. The twist may be from right to left our from left to right. It is difficult to determine size cause. It seems to be due to an interference of the venous circulation caused by compression at the level of the neck of the hermal sec. Clinically, a painful tumor of varying volume is found. It inness functional disturbances are present (vonting)

The normal adnexa may be twisted in the abdomen in the absence of pregnancy These torsions are rare. The patients usually young have never previously complained of genital disturbances The evary may be twisted alone or the tube and ovary may be twisted, equally or unequally At first there is a sudden pain and if the lesion is right sided it is usually diagnosed as appendicitis Rectally one feels a pelvic tumor but the informa tion obtained by rectal examination does not enable one to make a differential diagnosis. The cause is uncertain Torsion of the normal adness may occur during gestation The condition in some instances has been associated with hæmatocolpos, or with hematometra due to vaginal imperforation L CREVEIER

Curtis and Dick Concerning the Function of the Corpus Luteum and Some Allied Problems Surg Gynec & Obst., 1912, xv, 588 By Surg Gynec & Obst.

The report consists of a résumé of the literature and the results of original work on animals. The question of the relation of the corpus literan to the insertion and development of the forth was been a disputed one. Frankel maintains that the development of the fortus up to the end of the first hild pregnancy is dependent upon the corpus literam Marid and others dispute that Salim The author's experiments bearing upon this question consist of the removal of both owners during the first two weeks of

pregnancy. This was followed in every case by absorption of the embryo. Removal of but one ovary usually resulted in normal development to term. If the continuation of pregnancy was made to depend upon an ovary transplanted into the abdominal wall before coits, by the removal of the normally studied to the control of the normally studied to the control of the feet was during the first half of pregnancy.

In attempt was mide to produce an anticorpus luteum serum by Bicebes nucleoproteid method No evidence of immunization was obtained. Ix tracts of corpus luteum given hypodermically to animals from which the ovaries were removed in the first two weeks of pregnancy failed to maintain firstal.

development

Faperimental transplantation of ovaries failed to confirm the idea that successful homotransplantation

confirm the idea that successful homotransplantation is easily accomplished. Only two autotransplants out of 13 were successful and only one homotransplant out of 21 Careful observations on the weight, and histo

logical appearance of the adrenils in animals with owaries transcel failed to reveal any evidence in confirmation of the idea that the adrenals and owares mutually undergo compensatory, thouse when the function of the one or the other is below normal. Attempts to produce experimental idea, ets by transplantation of ovaries as by others failed

Davidson The Transplantation of the Ovary in the Human Being, with a Record of Three Cases Edinb M J 1912 iv 441 B) Surg Conec & Obst

The various phenomena such as headaches flushings and other nervous symptoms character istic of an early menopause brought about by removal of both ovaries on account of their discased condition can be treated only with much difficulty Therefore if transplantation of the ovaries is suc cessful it should be the ideal method of treatment The author cites three cases of transplantation of the ovary - two of which were successful removal of the ovaries he immersed them in normal saline at blood heat. Then after sewing the peri toneum, he embedded slices of the more healthy portions of the ovary in a slit in the rectus muscle He sewed up the slit in the rectus with catgut About the time of the patient's menstrual period there was a stiffness in the rectus muscle over the point of implantation. Bond in a series of cases showed that after one ovary was removed the other did not hypertrophy unless stimulated by pregnancy or sexual intercourse

Following this line of reasoning, an ovarian transplantation should be more successful in a married woman. Further, the implantation should be near the pelvic blood vessels to receive the benefit of the pelvic congestion.

J. Lackler

Lawson: Aneurysm of the Uterine Artery. Am J. Obst., N. V., 1912, Ixvi, Nov By Surg., Gynec & Obst.

After reviewing the literature of seven previously reported cases of ancurysm of the uterine artery, the author reports his own case. The patient was a white woman 36 years of age in her fourteenth pregnancy in biteen years. She aborted in the fourth month, and ten weeks later was operated on by Dr Boyce A trachelorrhaphy was performed, during which operation there was a brisk arterial hamorrhage on the left side of the wound Recovery was uneventful. Three months later she again became pregnant, and enjoyed good health until her labor in March 1910 After werk infrequent prins she precipitated suddenly with a rather profuse hamorrhage The placenta was expelled spontane ously for three days she appeared to be normal, but then began to complain of pain in the pelvis and left thigh There was a slight chill temperature 102, pulse 104 On the fourth day a sudden hæmor rhage occurred while the nurse was present estimated at about 500 cc, temperature 103 pulse 120 A second hæmorrhage came on a few hours later, she was tamponed vaginally and taken to the hospital. Here the tampon was expelled and followed by a violent hamorrhage. The uterus and vaging were prompily packed and patient was comfortable next day temperature ranging from o clock on the following morning hamorrhage became profuse, repacking and stimulation were futile death coming a few minutes later

I from actioning a tew minutes tateff. If the action is the from action is a formal of the front action and a small fairord was found on the external os and a small fairord was found on the antitior uteritie wall. Upon temoval of the uterus and its appendiges a six it is in length by a construction of the six of the strength of the six of

CAREY CLEBERTSON

VAGINA

(Kraurosis Vulvæ)

(Kraurosis Vulvæ)

Lu Gynft , 1912 xvi 533

By Journal de Chirurgie.

In a woman 28 years of age there was a total absence of the libar minors, all of the vestibular; murosa having the appearance of scar tissue. There was no appearent clutons. In the bottom of an irregular lunnel could be seen the very small inferior vaginal orifice. The ctologic factors were not definite. Syphilis or castration could not be invoked.

The case was not a post-operative kraurosis por a red inflammatory kraurosis but rather a simple white kraurosis. Perhaps a relation existed between the affection and the poor general and vascu for development of this patient. The arteries were small and the sphygmomanometric pressure was 12

In interesting feature of the case was that though scaual act was incomplete and exceedingly prinful the patient became pregnant. Is to the course to follow at the time of labor it was decided to deliver through the natural channels after bilateral liberating incisions of the vulva. The perincal tears did not exceed the limits of the prophylactic incisions. The incisions were sutured with cateur in such a way as to permanently enlarge the vulvar orthre I (severe

Hofbruer Plastic Substitute for Vagina (Leber Hastischen I reatz der Vagina) Manchen med Hidniche sons I 2500 By Surg Cones & Obet The method of Haberlin and Baldwin, with certain

modifications is advanced for the formation of an artificial sagina 1 mosable loop of the small intestines of the colon is resected and left connected with its mesentery anastomosis of the bowel is then done, the resected piece is displaced downwards and its upper end is closed the lower end being sutured to the vulva or a double loop is formed with the resected mere of the bowel the lower top of it opened and fastened to the outer skin

Taussig Surgery of the Female Urethra J Ho St M 1st tot at No. By Surg. Gynes & Obst. The author considers under this title three special

torses (1) surgers of chronic skenitis (2) treat ment of prethral cancer and (3) relief and cure of urinary incontinence Chronic skenitis often results in retention egsts

or abscesses that require incision and sometimes extirpation. In cases of beginning retention of pus or mucus in these ducts they may be increed with a delicate probe pointed scissors. To espose the openings of the ducts the writer uses the ordinary Outerbridge intrauterine pessars

Cancer of the urethra is rarely curable. Taussig teports four cases of primary cancer of the urethra. only one of which remained free from recurrence In the technique of his operation for this condition he begins by an extensive resection of the tributars inguinal and hypogastric lymph nodes with their surrounding lymph channels on either side, then a wide resection of the tissues around the urethra is made, including therein the crura of the clitons and the entire urethra After making an artificial vesicovaginal fistula in the base of the bladder for

drainage nurposes, a new prethra is built un as well as possible from the muscular tissue left at the neck of the bladder

The incontinence of urine resulting from such extensive resection of the prethra, from severe tears at childbirth or from the destruction following a tertiary syphilitic ulceration, is dealt with in conclusion. Of these three classes, the incontinence resulting from tears gives the best results. Occa sionally where operation is contraindicated, relief can be obtained in these cases by wearing a variet pessars that presses against the urethra. Where plastic work is necessary the writer prefers not to open the urethral canal but to build up the tissues around it for support. The cases where an entire new urethra has to be built up in patients of ad vanced age yield a large percentage of failure or only partial success 'perial emphasis is laid upon a high suture of the levator any muscle wherever there his been incontinence, as the levator ani has a not impossiderable influence upon the control of unitatean

MISCELLANEOUS

Surgery of Sterility (Chirurgie der Sterili Kehrer Hunchen med Il chnicht 1911 | 1501 By Surg Gynec & Obst

The important forms of sterility in the male and female, the absence of germinal cells, menorrhora and azoospermin may be rationally treated by the transplantation of sound ovaries or testicles. Ovarcan tumors causing retention of germinal cells may be treated by partial conferentomy with conservation of sound of the stuma and tubes If massage has no effect in obstructions to the entrance of the ovum into the infundibulum tubostomy is the only help that can be instituted

Occlusion of the os uten is doubtless an obstacle to fecundation what degree of narrowness however, causes sterility cannot be decided. Results may be obtained in stenosis laminaria by sufficiently large incisions. I or leucorthera with much secretion or a tough ceruical mucous plug the introduction of a uterine cannula (a cone shaped ebonite tube) is the rational treatment. When the sperm is prevented from entering the os uten by ejaculatio pracos, stenosis of the vagina vaginismus, hypo- and epispadias or masculine hermaphroditism, either the cortus specularis or cortus condomatosus should be Success with the coitus specularis was effected in one case where the husband was instructed in the use of a tubular speculum resulting in the birth of two children In constitutional diseases the practitioner should rather advise anticonceptional remedies than to try to repair the cause of steribty

F 5 TALBOT IR

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Green-Armytage: Elephantiasis of the Vulva.

J Obit & Gynec Brit Emp 1912, xxii 270

By Surg , Gynec & Obst.

Green-Armytage reports from Calcutta the case of an 18-yas-rold primparts, a Bengalese woman, who had been in labor for 14 hours. Each labum was occupied by an enormous, hard, elephantoid, warty growth, and projecting from the region of the clions and vestbule was a third mass, baid and granulomatous. The tumors had so constructed the vaganil introdus that dignit of the vaganil introdus that dignit as heaty fully dilated, the membranes were ruptured, and the feetal head was table, temperature 100 4, pulse 100

Abdominal Cesarean section was performed, followed by total hysterectomy On the third day, the central vaginal growth began to appear gangrenous and was amputated Asside from a colon bacillus cystits, recovery was uneventful The child survived Histologically the tumor showed the typical fibrous stroma, with the large dilated lymph spaces of elephantiasis

CAREY CULBERTSON

Green-Armytage Post-Mortem Cæsarean Section. J Obst & Gynec Brit Emp, 1912, xxx, 272 By Surg, Gynec & Obst

The author reports the case of a Bengalese prima para, aged on, who was admitted at term into the Eden Hospital, Calcutta, in a state of coms For in days she had complianced of gridiness, back acke, daysirins, and onstipation Screenisters, and the times showed albumin and contained the state of the contained of the state of the contained of the child did well and was alive three months late.

Edling: Radiographic Diagnosis of Extrauterine Pregnancy. Zentrallof f Gynab 1912, XXIV, 1559 By Surg Gynec & Obst. Zurhelle beheves that the importance of radio diagnosis of extrauterine pregnancy has been some-

what eraggerated It is evident that this method of diagnosis is of value only in those cases where pregnancy is far advanced, since otherwise the lottus would not throw a shadow clear enough for diagnosis.

Zurhelle has determined the precise seat of extra-

uterine pregnancy by inserting a metallic sound into the uterus, and thus demonstrating by means of the negative that the uterus was pushed to one side of the pelvis, and consequently that the foctus must be to the opposite side. However, in those cases where the precise location of the fætus has not been determined, it is of course impossible to introduce a sound into the utenne cavity except at the risk of provoking an abortion should the pregnancy be normal, and further, if the uterus is found in front of or behind the fœtal cyst and the radiograph be taken from the front or from behind, the shadow of the intrauterine sound would coincide with the shadow thrown by the skeleton of the fœtus, so that any conclusions drawn from the picture would be misleading

In conclusion, the author states that radiodizagnoss of extraotient pergenancy which has reached a stage of development sufficient to throw an X ray shadow has become very rare, as such cases are diagnosed early by the well-developed symptom-complex which they produce in the mother, and are operated E S Tatsor, Ja

Davis Thyroid Disease Complicating Pregnancy and Parturition. Bull Lying In Hosp, 1912, viu, 176 By Surg, Gynec & Obst

Writing from a purely chinical point of view, Davis first offers a fairly complete review of the literature, and reports four cases from his own experience. In concluding, he summarizes as follows.

"In my experience, in examining all cases of pregnancy the condition of the thyroid gland should receive attention. If this be manifestly enlarged or altered the patients' antiogenous metabolism should be closely watched, and if evidences of lack of thyroid sercetion be found the active principle of the glands in some available form should be administered. I have seen the best results by small doses, one grain three times a day, continued for from four to seven months.

"Our most reliable methods for ascertaining the patient's condition are interopen partition of the urine and the clinical study of the condition of the cruclation. Unfortunately, pulse tension varies so greatly, sometimes under the existement of exammation, that it is not as constant and reliable a factor interpretain the condition of the condition of the reliable.

"If there is a history of enlargement in the thyroid during labor, with the development of unfavorable mechanism and loss of the child through birth pressure, elective Cæsarean section before labor should be selected

"No case should be considered as convalescent, or receiving adequate attention, in which the patient after recovery from parturition does not seek surgical advice and treatment to permanently remedy the thyroid condition

"The induction of labor in these cases is seldom indicated, as it is too slow and uncertain pressure of elastic bags increases the mother's nervous disturbance, and delivery of the child through a partially dilated birth canal exposes to

additional risk

"In cases where degeneration of the thyroid gland does not seem to be present but an increased secretion of thyroid material is formed, absolute rest and milk diet, sedatives, and the application of ice over the gland should be immediately employed with the hope of improvement until the child can become viable. As reported cases show, it is sometimes possible to check the thyroid activity by this means and to bring the patient to a safe and spontaneous termination of pregnancy

CAREY CULBERTSON

O'Connor Pyelonephritis of Pregnancy and the Puerperium Boston M & S J , 1912, clyvu 652 By Surg , Gynec & Obst.

O'Connor reports a series of 29 cases, and from his study draws the following conclusions

I Infection of the pelvis of the kidney invariably involves the parenchyma

2 Owing to its anatomical relations, the right kidney is more vulnerable

The disease is much more frequent than supposed, the writer estimates that it occurs once in

every 3000 cases Malnutrition, constipation, and tonicity of abdominal muscles (holding the pregnant uterus against ureter), are predisposing factors, tendency to renal abnormalities on the right, dextrotorsion of the uterus and predominance of positions in the right oblique diameter favor the infection of the

right kidney s Injection by the colon bacillus is the most common type, direct transmission through the intestinal walls being the probable mode of entrance

(the ascending colon overlaps the right kidney and 15 yery close to 1t)

6 The pathological picture shows the peivis and ureter dilated with pus, and miliary abscesses in and beneath the cortex

7 The cardinal symptoms are smarting micture tion, chills, fever, nausea and vomiting, pain in the loin, and elevation of pulse The unne is turbid

purulent, and albuminous Tenderness in region of kidney is always pres ent Enlargement of the organ can be demonstrated

in about one fifth of the cases o Abortion and surgical kidney are the most

common complications to The diagnosis can generally be made on

physical signs and urinalysis, the differentiation from appendicitis being the greatest difficulty

11. Prognosis is usually good for the mother and less favorable for the child

12 Treatment by rest, sedation, catharsis and urmary antisepsis has met with success. The use of vaccines and pelvic lavage, if of any real value at all, entails dangerous delays and, being extremely technical, is beyond the scope of the rank and file

of the profession Early operation in cases that assume a surgical aspect is to be recommended Tuszkai: Heart Disease in Pregnancy. Am J Obd. N Y 1912, lavi Nov By Surg , Gynec & Obst

The fact that individual observers hold such different opinions makes it desirable to clear up this question as far as possible Tuszkai's article is a study of the literature and of 16 cases of his own. in only 8 of which are the notes of a reliable charac-Cases of pregnancy complicated by heart disease are divided into three main groups (1) Those cases in which there has been recognized heart disease for some time before pregnancy occurs, (2) those cases in which a latent heart lesion is made manifest through pregnancy, (3) those cases in which pregnancy causes cardiac trouble of a funda mental nature and permanent arterial disorders ensue as a result

The author's conclusions are summarized as follows

The pulse in pregnant women differs from that of a normal individual in that it loses its normal variability, not only in the second half of pregnancy but sometimes at the outset

2 The cessation of variability is most probably the sign of normal hypertrophy of heart of a gesta

tional character 3 The prognosis in cases of pregnancy compli cated by heart disease, based on the literature of the subject and the author's experience, may be con sidered as follows (a) In cases in which heart trouble was present before pregnancy the diagnosis is simple, for we meet with marked heart lesions in The prognosis in the early stages of pregnancy these cases is usually unfavorable. Variability of the pulse disappears for a very short time, to re appear again in an increased degree combined with symptoms of dilatation of heart and want of com-pensation (b) To the second group belong cases in which the heart affection, hitherto latent as a chance factor, is brought into prominence by the pregnancy Into this category fall also cases of anginosclerosis, or those with hereditary tendency, and also those cases aggravated before labor by same senous disorder of an infectious nature, as influenza, typhus or gonorrhœa, or some general ailment, such as tuberculosis, syphilis, or rheumatism Diagnosis will present no difficulty if we carefully investigate the causes referred to, and we shall find that the heart trouble develops gradually and attams pro portions consistent with the degree of the general disease and the occasional factor present Prognosis may therefore be quite favorable in some instances CAREY CULBERTSON in this group

OBSTETRICS 193

Williamson: A Clinical Lecture on the Significance and Treatment of Sugar in the Urine Buring Pregnancy. Clinical J., 1912, 211, 97 By Surg., Gynec & Obst

If sugar is found in the urine of a pregnant woman by Fehling's test, it should be determined whether it is glucose or lactose Glucose is fermented by yeast, lactose is not A trace of lactose is common during the latter weeks of pregnancy, and indicates premature mammary activity but has no further clinical significance After delivery, whenever the breasts become engorged lactose is present in the uring, when the distention of the breasts is relieved the lactose disappears If glucose is present in the urine, one must determine to which one of the three groups the case belongs - alimentary glycosuria, transient diabetes, or true diabetes Alimentary glycosuma can be eliminated if a carbohydrate free diet causes urine to become sugar free Transient diabetes can only be diagnosed positively by the disappearance of the sugar in the urine after delivery However if, despite a strict diet, sugar is present in the urine in the early months of pregnancy, if acetous and diacetic acid also are present, if thirst, hunger, and prurites are not relieved by dieting, one can make a probable diagnosis of true diabetes The transitory diabetes is due to a change in the pituitary body

True diabetes is a very common cause of mis carrages and of the death of the child during the last few days of pregnancy. Diabetic pregnancies are characterized by hydramios, presence of gluose in amnotic fluid, and excessive development of the child. Diabetes does not cause startly Following delivery, there is a very severe acidosis, due to elimination of mate products by uncreadmiscular effort of uterine and abdominal muscless. This aridosis visually termostates in communications.

This acidosis usually terminates in coma and death. The prognosis is extremely grave as to both mother and child in true diabetes — 25 per cent of the cases die within 24 hours after delivery, 25 per

cent more die within two years

If despute a rigorous diet, glucose persists at 2 to 3 per cent, acetous and diacetic acid remain in the urine, thirst, hunger, and pruntes continue—

3 per cent, acetous and diacetic acid remain in the utine, thirst, hunger, and prunties continue terminate pregnancy. After delivery give intravenous injections of sodium acetate 1 dr to a pint of normal saline, to counteract the acidosis

Smith Icterus Grave Simulating Phosphorus Pounding, Report of a Case with Post-Mortem Findings. J Mo SJ M Att, 1012, 11.131
1.133 M, frank, assistant Sy peats, five months preparat, ill one week, act 25 peats, five months preparat, ill one week, act 25 peats, five months preparat, ill one week, act 25 peats, five months preparat, ill one week, act 25 peats, five months on extrance into our service at the Mullanphi One transce into our service at the Mullanphi Moptal, St. Lous, December 16 at 2 90 am, puble was 145, temp 105°, and icterus intense, vomiting was 145, temp 105°, and icterus intense, vomiting was 145, temp 105°, and icterus intense, vomiting the 15° peace of the 15°

with fat droplets in epithelial cells. No leucin or tyrosin. Post mortem 17 hours after death showed liver of normal size and weight, viz. 3 lbs. Necross of liver parenchyms so extensive, with some fatty degeneration, that acmi were hardly distinguishable Chemical examination of sections from liver and kidney showed no phosphorus by distillation or with ammonium motbydate test.

Diagnosis Phosphorus poisoning suggested (1) because of fulminating symptoms and, (2) because of pregnancy, phosphorus being frequently taken to induce abortion, and especially in Germany, where patient hailed from According to Witthaus and Beck, out of 294 cases of suicide by phosphorus, 177 were in Germany and 172 were women, among whom many had taken the poison to produce abortion Acute vellow atrophy, on the other hand, frequently complicates pregnancy and the puerperal state, but in acute yellow atrophy the liver should be reduced in size and weight. In phosphorus poisoning there should be phosphorescence about mouth, vomit, faces or urine, and phosphorus should be present chemically in the tissues of such organs as the liver or kidneys Diagnosis therefore must be acute parenchymatous degeneration of the liver, the case being not of sufficiently long duration for atrophy to devel op Acute parenchymatous degeneration or necrosis of the liver, therefore, would appear to be a better term for the condition than acute vellow atrophy

Lichtenstein The Expectant Treatment of Ectampsia (Die abwartende Eklampsiebehand lung) Arch f Gyndk 1912, xcvin, 416 By Surg Gynec & Obst

Lightenstein gives the histories of his 45 cases and statistics of 103 cases from the literature of eclamosia treated expectantly He recommends a combination of venesection and Stroganoff's method as the treatment for eclampsia. This has the advantage that delivery can be treated conservatively and that it is spontaneous in many cases. If possible the venesection is done primarily up to 500 cc or else after the delivery, without awaiting further attacks No damage has ever resulted from this treatment The venesection lessens the blood pressure and partly removes the poison. The number of attacks was reduced per capita to one half and one third of the attacks of cases treated with active therapy attacks stopped in 60 per cent of the cases after the treatment 35 56 per cent of all cases were inter-current, and the venesection played a considerable part in the improvement of the eclamptic symptoms. 41 to 55 per cent of all cases proved to be uninfluenced by the delivery as far as attacks were concerned The foetal mortality is less with the proposed treatment The maternal mortality was 13 45 per cent in the collected cases and 11 11 per cent in his own material Later statistics compiled by the author containing 329 cases, show still better results His clinical experiences speak strongly against the ovogenous and placental theory of eclampsia I S TALBOT IN

Harrar: The Mammary Glands and Eclampsia; Report of a Case Treated with Orygen Infiltration of the Breasts. Bull Lying In Hosp, 1912, Vill, 219 By Surg, Gynec & Obst

The author points out the various attempts that have been made to connect perversions in the secretion of the mammary gland with the origin of Babies not infrequently are taken ill and die shortly after the first full breast feeding from an eclamptic mother Working along the lines of comparative pathology, veterinarian investigators have suggested the use of oxygen infiltration of the breasts in eclampsia, similar to the successful treatment of parturent paresis in the cow enthusiasts have even amputated healthy breasts of eclamptics in the treatment of the condition The author proposes that the toxins in the milk or colostrum in eclampsia are rather the excretions of the disease than that the secreting breast is the origin of these toxins. It is more probable that the toxins or destroyed tissue poisons are distributed not only in the blood serum and the urine, but also in the breast secretion, and that the oxygen distention of the submammary cellular tissue merely aids by isolating a concentrated portion of the total amount. He then reports a case of eclampsia successfully treated by this procedure The patient's colostrum was also expressed after delivery and injected into guinea pigs, which, however, when killed later, exhibited no distinctive pathologic lesions

Davis: Modern Methods in Cæsarean Section. Bull Lying In Hosp 1912, viii, 225 By Surg Gynec & Obst

The author describes in detail the technique of his operative procedure, and presents statistics of 134 personal cases The main points in the operation include a high median incision, 3½ inches in length, from the umbilious upwards. The intestines are held back by wet gauze pads, and the sides of the abdomen pressed against the uterus by an assistant The uterus is opened in the midline The hand is swept around the interior, loosening up the mem branes, after which the latter are perforated and the fortus is extracted by the breech The wound in the uterus is closed with two layers of stitches The first row, of No 2 chromic catgut, is passed through and within one eighth of an inch of the cut edges of the peritoneal covering of the uterus, down through the muscle, and out in reverse order on the opposite side, avoiding the mucosa After being tied this row of statches as covered by a continuous suture of No 1 chromic gut, by means of which the serous coat is turned in and the first layer of stitches is completely covered. The uterus then is unimpeded in its subsequent descent and the adhesions between the same and the abdominal wound are avoided The abdomen is sutured in three layers and covered with an ordinary laparotomy dressing Dayis believes that by this method a great deal of shock is avoided, and likewise the danger of a subsequent herma

Out of his series of 134 cases, 17 mother died, in which the causes of death were as follows. Series infection (only two of these were wholly under the care of the operator, eight had outsade examinations or attempts at delivery), to cases, acute distations of the stomach, assettiena, 1, shock and slow, perust as the stopping of the stomach, assettiena, 1, shock and slow, perust eclampsia, 4. The indications for the operations, eclampsia, 4. The indications for the operations of the stopping of the stoppi

Schaefer Abdominal Cæsarean Section (Ueber abdominale Kaiserschnitte) Zischr f Gebutik u Gyndk, 1912, lxxii, 253 B5 Surg, Gynec & Obst

The author advocates a special method of ab dominal Cæsarean section in which the disadvan tages of the classical Casarean section are avoided, such as the flowing of blood and liquor amnii into the abdominal cavity, post-operative herma, pres sure on the intestines, cooling of the uterus, trouble in suturing the uterine wound, and great loss of blood The method is easier than the extrapento neal section, the wounds are smooth and the inci-The procedure is as follows A sions simple longitudinal incision is made in the median line just above the symphysis, through the skin, fat, fascia, and perstoneum The cervax is incised longitudinally in the median line just above the fold which is low under the symphysis when the bladder is empty If the median line is strictly adhered to there is little hamorrhage A narrow speculum is placed in the upper angle of the uterine wound and pulled into the upper angle of the abdominal wound, so that both he close together, thus avoiding the spilling of ammotic fluid and blood into the abdominal cavity. In head presentations the child is extracted with straight forceps, otherwise it is turned and delivered by the feet. One to two cc secacornia (Roche) are then injected intramuscularly After some minutes the placenta and membranes are dehvered The cervical wall and peritoneum are closed with continuous catgut sutures. The ab dominal wound is closed with four continuous catgut sutures and the skin with Michel's clamps cases were drained. All the children were living and dismissed well except one, which had an exoph thalmic goitre and died one hour after delivery Two mothers died One had a flat pelvis and was operated on 24 hours after rupture of the ampiotic sac She had been exammed by nine students and a relaparotomy had to be done on the seventh day after operation for general peritoneal infection, from which she died two days later The second case was admitted with profuse vaginal hamorrhage, probi bly caused by repeated unsuccessful manipulations with forceps She died 27 days after the operation,

from an abscess in the cul de sac of Douglas and a diffuse purulent peritoritis. There was some delay in the bealing of the wounds in most of the cases which had been operated on later than 20 hours after the rupture of the ammotive sac.

Serebrentkowa: A Case of Ovarian Pregnancy (Ein I all von Eierstockschwangerschaft) Arch f Gmäh, 1912, xcvus, 525 By Surg, Gynec & Obst, The author describes the microscopical findings

in a case of right ovarian pregnancy, and comes to the conclusion that the fecundation of the ovum did did take place in the cavity of the corpus luteum, but that it was retained in the curved and slanting tear of the follicle It was not fecundated in the folds of the follicle because the spermatozoa could not have penetrated there If the ovum was retained in the aperture of the follicle, the spermatozoa could easily enter This is facilitated by the intraperitoneal pressure, as the follicle has lost the power of driving them out. After fecundation, the ovum developed in the cavity in the lower part of which the usual metamorphosis continued The corpus luteum was separated from the ovum by a connective This plate was found at the bottom of tissue plate the feetal sac The ovum then grew in this connective tissue wall, under and into the tunica albuginea and, corresponding to its increase in size, farther into the ovarian tissue and follicle. In its further development the ovum destroyed and resorbed the surrounding tissue through the syncytium, causing hyperæmia and greater growth of the struma Around the amniotic sac the same process took place, here the destruction thinned out the wall of the matrix, which ruptured, and the blood, spurting out from the dilated ovarian vessels under high pressure, destroyed the fine villous spaces This rupture occurred at a time when the connections between the ovum and the struma were still very loose, and this explains why only a small quantity of the fortal elements was found

Of 30 cases of ovarian pregoancy found in literature, 4 children were at term and vable—10 per cent. The cases of ovarian pregoancy may be divided into three classes (1) The ovum develops in the Graafian foilitch, as in the author's case, or in the corpus lutum; (2) the ovum develops on the wall of the ovary, (3) the ovum percentage into the struma of the ovary and develops there

Williams Further Contributions to Our Knowledge of the Petnicious Vomilting of Pregnancy. J Obst & Gyma Bett Emp , 1912, xxx, 245

By Surg, Gymec & Obst

This article is the author's first contribution to the subject since 1906, and is based upon his observations since that time. A large part of it is a discussion of the ammonia coefficient and its relation to peraicous vomiting. He still holds to his original classification of reflex, neurotic, and torarmic vomiting the neurotic form being the most common, while the frequency and importance of the reflex.

type has been greatly evaggerated. The value of the paper is increased by charts and by the report in detail of 8 cases. The conclusions are

The underlying factor in all cases of vomiting of pregnancy is probably an imperiest reaction on the part of the mother to the growing ovum

2 In most cases this is only a predisposing cause, while a reflex or neurotic influence is the exetting factor, and cure usually follows its removal

3 The author holds to the classification of reflex, neurotic, and toxemic vomiting. Of these the neurotic is the most frequent and the reflex the least frequent type while the toxemic is the most serious. 4 Protounced toxemic vomiting is accompanied.

by characteristic lesions and profound changes in metabolism

5 The significance of a high ammonia coefficient is not specific. It may be a manifestation of toxemic comiting, of starvation following neurotic comiting, or of an acidosis due to various causes.

6 It should be regarded merely as a danger sigal, while the differentiation between the various types is possible only after careful clinical observation. If improvement does not promptly follow appropriate treatment, the existence of toxermic vomiting should be assumed and abortion promptly induced.

7 In the absence of genital 1 sions a low ammonia coefficient indicates neurotic vomiting which can be cured by suggestion and dietetic treatment, no matter how ill the patient may appear

8 In primiparous women vaginal hysterotomy is the most conservative method of emptying the uterus. Nitrous oxide gas or ether should be used in preference to chloroform for anaesthesia.

CAREY CULBERTSON

McPherson The Radical Treatment of Abortion Based on a Series of 3500 Cases Bull Lying In Hosp., 1912, viii 234 By Surg Gynec & Obst

The author presents a study of this large number of cases which occurred in the service of the New York Lying In Hospital, from which it appears that abortions are more common than is ordinarily realized and that the sequelæ are frequently serious McPherson finds that these cases can be divided into two classes, the first of which included 1781 so-called "neighborhood cases," mainly made up of women treated in their own homes and subject to the ordinary accidents of pregnancy, the second, or "hospital group," including many cases of criminal abortion and almost all of the accident and emergency cases The number of primiparæ in the latter group was 25 per cent, leaving a rather low percentage of 8 9 primipare in the total number, or 16 5 per cent, approximately one primipara to every six aborting women In this series there were 1320 cases between the sixth and twelfth week, 1220 in the first three months following this and 800 in the first six weeks of pregnancy. In the entire series of cases the ovum was completely expelled in only 587 and unruptured in 480, showing that in a very large

proportion the process must be incomplete. For this reason the writer advises a radical emptying of the uterus in every incomplete abortion, and this method was employed in 2803 cases out of the series The mortality was 38, or 1 8 per cent, including all the cases, and, exclusive of accident and malignant complications, only or6 per cent Moreover, a satisfactory result was obtained in 97 per cent of the cases treated by this means. It seems necessary that in every mevitable or incomplete abortion the uterine cavity be explored and subjected to curettage, with careful antiseptic precautions and under complete anæsthesia, preceded when necessary by a gauze pack in the cervix and uterine cavity to stop hæmorrhage, separate the secundines, and dilate the cervix After cleaning out the uterine cavity with a sponge holder and the careful application of a dull curette, followed by a sharp one, the interior is wined out with gauze and nacked with a continuous strip of iodoform gauge. In the presence of evident sensis the sharp curette is omitted and the interior swabbed with tincture of iodine

LABOR AND ITS COMPLICATIONS

Edward. Dystocia in a Case of Uterus Didelphys Am J. Obst., N. Y., 1912, IXVI, Nov.

By Surg , Gynec & Obst A study of the literature on uterus didelphys shows how infrequently at parturition the second uterus causes dystocia necessitating operation most cases the non-pregnant uterus has offered no resistance, either rising out of the pelvis spontane ously or being pushed up manually during delivery In Lauffer's case there was considerable obstruction, which was overcome gradually in the course of a slow breech extraction Pollak's case was similar, and in Stabler's there was injury to the vagina, which was septate Von Guérard reported a case where version was unsuccessful and the foctus was delivered by cramotomy In two cases described by Bettman and Lählein delivery was by the vaginal route, but both mothers were lost as a result of rupture of the uterus Abdominal section has been employed but twice, one of these cases not being a

true uterus didelphys The author's case is that of an American woman aged 20, mentally under developed Menstruation had been normal since 14 years of age. She was seen in December, 1911, in labor, the termination of her first pregnancy The child lay obliquely, the head in the right that fossa Internally the external os was on the left, dilated 1 cm, the cervical canal being obliterated. In the right pelvic cavity lay a tumor, movable, but with an opening leading into it from the vagina, just beside the dilated os. It gave the impression of a second uterus Reposition of the child was impossible, and Cæsarean section was performed after waiting a few hours revealed a genuine uterus didelphys The pregnant uterus was removed by the Porro procedure, the second uterus being left. Recovery was uneventful, CARRY CULBERTSON the child also surviving

Kreutzmann: Labor in Moderately Contracted Pelves, with Special Reference to Cæsatean Section. Cal St J M., 1912, x, Nov By Surg, Gyacc & Obst.

The author recommends, in this class of cases, watchful expectancy To the experienced and conscientious accoucheur it will become evident. after 10 to 12 hours from onset of labor, whether the woman is able to force the head through the pelvis or not If it is apparent that the head will not pass. perform Casarean section, but if the labor has been protracted, possibly attempts at delivery having been made, the author strongly advises against Carsarean section In this class of cases Casarean section is done for the sake of the child, the life of the parturient must not be exposed to any danger whatsocrer There is a mortality in these cases after Cæsarean section Reports of a number of successful cases, as occasionally made, do not tell the whole story, the fatal cases are not reported

When symptoms of infection are present, delivery per vans naturales should be done—forceps applied and craniotomy done, in extreme cases the subterven thinks craniotomy of the hung child is permissible and certainly it is better obstetties than bruild application of the forceps, followed by crushing the life out of the fredtus, and by severe, possibly fatal faceration of the mother, petter obstetties than the control of the control of the mother, petter obstetties that for the control of the mother, petter obstetties are controlled to the control of the mother obstetties. The controlled of the contr

fear of damage suits in case of failure.

PUERPERIUM AND ITS COMPLICATIONS Bumm Three Cases of Puerperal Pyæmia, with Operative Treatment. kongliche Unwerstats Frauenklinik Berlin Reported by Dr Warnekros, assistant, adapted by 1. Robin Goldsmith

By Surg, Gynec & Obst

Case r Patient robust, 40 years old, XII para, admitted to hospital after having been examined by midwife and by physician Findings temperature 37 5°, pulse 100, os dilated 2 fingers' breadth, membranes ruptured (8 days previously) No heart tones Dead foctus delivered spontaneously one half hour later Placenta expressed in 30 minutes Tempera-After 24 hours, temperature 30°. No ture so 8° bacteria in blood Streptococci and putrefactive bacteria in lochia Fourth day, temperature 38 pulse 100, slight chill Chills and fever continued up to the tenth day A rectal and vaginal examinatron showed infiltration and thickening to right of uterus Laparotomy performed and common diac vein ligated Branches of the common iliac vein were thrombosed and adherent to the surrounding tissues Temperature fell from 41° to 37 9° No bacteria found in blood. On third day post-operative, patient died of aspiration pneumonia Autopsy showed a double-sided broncho pneumonia Uterus and adnexa negative Cultures from peritoneum sterile On right side there was perivascular infiltration and the veins were filled with pus thrombi

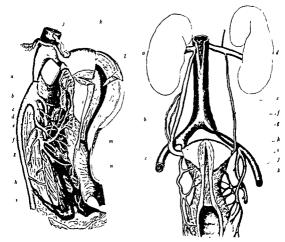


Fig. 1. The legation of the common like vein had exduded from the circulation leveral purietie for e.g. legature on the right common like vein, 6, anstationosis from aboves to internal like vein, 6, internal like vein, 6, which is a like vein, 6, inferior uternal vein, 6, hastorinosis of uternal vein, 6, inferior uternal vein, 6, hastorinosis of the vaginal vein with the external like vein, 2, ternal like vein, 1, titefrone vein casa, 8, single common share vein, 1, uternal vein, 7, expans

An abscess the size of a plum was found in the right parametrum and in the musculature of the cervix Case 2. Primpira, 19 years old, examined by midsife, brought to clinic for delivery on account of the control of th

Fig 2 The ligation of the left common diac stopped the chills a, right renal vein b right spermatic vein, c, external hinc vein, d single renal vein, c, inferior vena cava, f, ligature of single spermatic vein, g, ligature of single common thrac vein, k stem of hypogastic vein, g, median iliac vein j, interior iliac vein, k, external iliac vein

Patient had ulcers in laryny and traches. On ninth day was given to cc of Menzer's streptococci serum subcutaneously, and 24 hours later 20 cc of Arenson's serum was injected. A few bacilla and no streptococci were found in blood culture taken one hour later Three more injections were given in three successive days Blood remained free of streptococcus but temperature was not affected, remaining high until 28th day when the common iliac vein was ligated Temperature gradually fell until the fourth day post-operative, when it was normal For the next six days temperature remained normal and there were no chills Blood culture showed a bacillus The patient was emaciated and in poor physical condition and was given glucosa and salt solution subcutaneously and nutrition enema



Fig. 3. Section through the closed venu cava a ation of venu cava.

per rectum However a sivere decubitus developed On the eleventh day post operative, while the patient was being turned on her side, she complained of a severe pain in the abdomen She died in 12 hours

Autopsy showed pus in the pelvis, coming from a ruptured parametric abscess extending retropertioneally to the spleen. The entire lumen of the vena cany was filled with a purvlent thrombus extending up beyond the entrance of the retail vena sand on the vena to the contract of the retail vena sand of the contract pushing the properties of the properties

CASE 3 Primpara, anamic, aged 36 Admitted with diagnosis of placenta pravia following an examination by a midwife Temperature normal, pulse small, and frequent Vagina filled with blood cot, cervix diated one finger's breadth. The cervix was dilated digitally and podalic version performed, nor foot was pulled down. As there was no progress

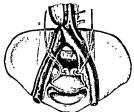


Fig 4 Ligation of vena cava above the point of divi-

in the next 20 hours, despite traction on leg and subcutaneous injections of pituitary extract, cervix was diluted, second foot brought down, and delivery effected by means of perforation of after coming head Lacerated cervix repaired Placenta delivered spontaneously in 15 minutes Tragments of placenta removed digitally, uterus massaged bimanually, cold intrauterine douches given, and uterus and vagina tamponed Tampon removed in 24 hours Temperature first day, 37°, second day, 38 70°, third day, 30 9° Pulse slow, regular, strong On fourth and fifth days temperature and pulse normal Temp-rature then gradually rose till eighth day, when it was 39°. I'ulse 110 Strepto cocci were found in blood. On eleventh day there was a severe chill and temperature to o coccic serum injected on 12th 13th, and 14th days Blood cultures showed a few streptococci. From the 16th to the 26th days the temperature was that of a thrombophlebitis, pulse varied from 120 to 130, but there were no chills On 18th day thrombophlebitis of right femoral vein was diagnosed From the 26th to the 30th day serum again injected without effect. On vist day inferior vena cava was ligated, for the right common iliac vein was throm bosed The patient died 4 hours after operation Autopsy showed a right sided adhesive pleuritis, septic spleen fatty liver, the inferior vena showed no thrombosis above ligature, but a marked thrombosis below ligature, extending to femoral and crural veins The left common iliac vein was filled with liquid blood

Condusions —The best time to operate is when, according to clinical and bacteriological findings, the process is localized. The operation should be performed at the time when the indexting organisms are being eliminated from the blood. The common line wenn is the choice of the site of operation, but the inferior wena cava can be ligated without fear, for a compensatory circulation will form

E S TALBOT, JR

MISCELLANEOUS

Frank: An Experimental Study of the Placenta under Physiological Conditions (Ferments Vital Staining). Surg , Gynec & Obst , 1912, IV By Surg , Gynec & Obst 558

The author gives a résumé of the work done on the placenta relative to the ferments present and also the permeability of the placenta to different sub stances The ferments found in the embry o are also tabulated, showing variable results obtained by different workers The author states that the gap between mother and fœtus is bridged by the placenta. The foodstuffs carried to the placenta are contained in the blood Certain substances are accepted, others rejected The excretory products elaborated by the embryo also reach the maternal blood through the placenta The presence of ferments, though suggestive, does not necessarily imply that these ferments perform the work, they may be present merely as an integral part of the placental cell, and the placenta may act purely as a delicately adjusted filter (using the term broadly, to include osmosis, diffusion, and even selective secretion)

The object of the investigation is to determine whether any differences exist in the ferment content of the functionating as compared with the non functionating placenta. The author then gives the technique and the results of his experiments, showing with good color illustrations the "vital" staining He draws the following conclusions

I The placenta does not show any parallelism between the ferment values and its functional condition

- 2 Changes in the minute structure of the placenta, as shown by vital staining, are dependent upon the nutrient supply of blood furnished by the mother
- 3 The fortal membranes possess a considerable degree of independence, and maintain their function unchanged much longer than the placenta
 - 4 The feetal membranes are more rapidly traversed by certain substances than is the placenta Whether exchange effected by this route is of im portance to the fortal metabolism was not deter mined
 - 5. The evidence obtained in this investigation

layors the view that the placents is a passive organ for exchange, rather than an active organ of meta-E L. CORNELL bolism

Markoe and Wine The Thyroid and Its Relation to Pregnancy and the Puerperal State. Bull Lying In Hosp , 1912, ym, 152

By Surg , Gynec & Obst

The authors report in detail their observations upon a series of 1000 pregnant women, which were entered upon a special form of analytical chart. Freund and Lange, in a recent communication, stated that they were unable to formulate any definite rules for measuring the thyroid gland, owing to the impossibility of devising a method that would be accurate Markoc and Wing agree that a careful study of their cases, where the thyroid was palpable shows that the results were no more satisfactory It was found, moreover, that in most of the women examined no definite means of judging the time when their necks first began to enlarge could be elicited. In a study of the blood examinations made in most of the cases there was a small percentage of abnormalities but these could be accounted for by pathological conditions in no way connected with the thyroid Most careful analyses of the urine were made in all cases, with negative results, likewise no definite deductions could be made out in regard to the thyroid in its relation to Among the 1000 cases examined, 550 were primiparæ and 450 multiparæ. Ninety-seven cases of enlarged thyroids were found in 64 primiparæ and 33 multiparæ A family history of goitre was present in 8 cases (7 primiparæ and 1 multipara) In 6 primiparæ there was a history of menstrual dis turbance. Hyperthyroidism was present in varying degrees in 7 cases, and probably in one other, although there was no palpable thyroid evident. In an endeavor to find out at what time the enlargement of the thyroid was first noticed among or cases, it was seen before pregnancy in 12 and during pregnancy in 18, 34 remaining doubtful, as the patients had not observed any changes in their necks, although when observed at term the gland was found enlarged. In multiparæ, the enlargement was determined before pregnancy in 8 cases, during pregnancy in 12, and doubtful in 13, the same remarks applied to the latter as in the cases of the primipart

GENITO-URINARY SURGERY

KIDNEY AND URETER

Hartmann: Technique and Results of Operations upon the Kidney flechnique et resultats des opérations pratiqués sur le rein) Leports of Hart mann a Clinics, 1012, 4th series

Hartmann: Surelcal Treatment of Diseases of the Aldneys (Frastement chinurgical des miladies des teins) Id , p 328 Ity Journal de Chirureie

These two articles are a risume of the author s practice and constitute a ventable triatise upon renal surgery. In the first article the author de wribes the technique and the results obtained for each operation, in the second he gives the indications for operation in each disease of the kidney and earlains the statistics derived from his own experi once Both articles are remarkable for their rich ress in material and for the number of personal observations published in extenso

Hartmann conforms to the classical procedures in deal no with renal disease. He is always careful to test the functional activity of both kidneys by means of methylene blue etc before operating He does not employ preteral catheterism. He is

crossed to artificial polyuria

He has practiced 16 exploratory nephrectomies with to cures, 6 decapsulations with 3 deaths (one from anuna) and a cures, 17 nephrolathotomies with one death and 16 cures (two had temporary fault), 6 pyclotomies with 6 cures 78 nephrosto mes (77 lumbar, 1 abdominal) with 14 deaths and fa overative cures, 124 nephrectomies by the lum har route with 3 deaths and 121 cures (in one case the vens cava was torn it was double ligited), & ald minal nephrectomics with a death and : revel, 35 rephropexies (32 in the female 31 being ngli uded)-in is eases there was renal retention there was I death and 34 cures The end results d finten of the kidney vary because of the subr vetroible which may arise Hartmann reports

at a crable results in 17 cres The author treated 15 cases of anuria and 3 cases in the nephritis and all died despite decap One case of biliteral tuberculous was and application, to cases by calculous anutia, s were new quantaneously. Swere nephrot chi gi there were 5 deaths | I or hthiasis ned \ -Nt) Hartmann performed 12 nephroto owed a 131 dech and 7 complete cures, for a septic 170 canes with 6 cures without fistula. - s th : death and 14 cures, 2 pa th diagni, ination to the rece of the trouble. In 13 cases lies small, the property with 1 to receive did a nephropexy with 1 to receive did a membrane and summer which he

s quated dig. 27 1 chapant spinal tumors which be e foot was pull 12 17 11

carcinomata, 2 epitheliomata of the pelvis and one fibrosarcoma of the hilum The operative mortality was 11 per cent In cases of malignant neoplasms, Hartmann advises the removal with the kidney of the permed fat. He does not molest the suprarenal causules. He is a partisan of early nephrectoms in unilateral renal tuberculosis. He has not any faith in the efficacy of medical treatment

OR LENGRANT

Bruasch, The Clinical Diagnosis of Congenital Anomaly in the kidney and Ureter, Ann Surg Phila , egta, 1, 726

By Surg Gynec & Obst

Within the past five years 36 pitients having gross renal and ureteral anomalies were observed in the Mayo clinic Of this number 7 were operated on for diseased conditions in the abdomen other than those in the kidney in whom the discovery of the renal anomaly was largely incidental to general abdominal exploration. Lighteen were operated on for various pathologic conditions complicating the anomals. With the development of the cystoscope and the radiograph and more recently through the discovery of the value of these instruments in their simultaneous employment as in pyelography, an accurate diagnosis can be made in practically every case of renal or ureteral anomaly

In the order of their frequency the various anomalies were as follows fused or horseshoe kid nes 11 congenital single of asymmetrical kidney, 6, atrophic kidney 3, ectopic kidney 3, duplica-tion of renal pelvis and ureter 8 division of ureter, 3 The nathologic condition existing in the anomalous kidney or ureter usually calls attention clinical ly to its existence. That such kidneys are peculiarly

liable to disease has been noted by various observers Fused kidney The type of fused kidney most frequently found is the so called horseshoe kidney Although its usual position is in the median abdomen at about the level of the umbilious at often hes more to either side of the spine Unfortunately, the subjective symptoms caused by various pathologic conditions found in the horseshoe Lidney might easily be confused with the symptoms caused by disease in the surrounding organs. The radiographic shadow of soft tissues in the abdomen is usually too mexact to permit of accurate interpretation. Occasionally the outline of a median mass in a thin subject may be suggestive of a horseshoe kidney However more exact data are to be obtained through the combined use of the radiograph and the cystoscope, namely through pyelography The mined and any complicating dilutation or deformity

of either pelvis and ureter can be clearly demonstrated

Corporated single believe The diagnosis of the congenital absence of one kindry can be made claurally only by means of the cystoscope, and thus the conducton becomes a problem largely of cystoscopic technique. Inability to find a ureteral bladder does not necessarily indicate its congenital absence. In the hands of an experienced observer, however, the absence of any evidence of a measure of the problem of t

Altophic kidney Attophy of the kidney may be funte unpossible to differentiate the etiologic factors on gross examination. With a marked degree of attophy of one kidney, the other kidney is usually found be petrophied. The discovery of hypertrophy in a kidney upon abdominal exploration would necessite examination of the other side. The clinical diagnosis of an atrophic kidney may be a full diagnosis of an atrophic kidney and exploration would necessite examination of the other side. The clinical diagnosis of an atrophic kidney may be estimated of renal function, cystoscopic evidenties of urefural atrophy, systemic evidence of renal in-sufficiency, and fanally pvelography.

Eclopic kidney When the kidney is found bying fixed in the box pelvs or across the spine, and when its blood vessels come from adjoining vessels, such as the likes, it must be regarded as a true congenital anomaly. Such a kidney is called an ectopic or pelvic kidney. Pelography is more accurate in its diagnosis than ureteral catheters, since it will not only locate the kidney but will also demonstrate any

pathologic complication

Anomalies of the uneter. That the normal remained problems may susue any of a great variety of sixes as well known. The individual calices may be so its well known. The individual calices may be so its well known. The undividual calices may be so so when the calices do not unite the pelves, particularly so when the calices do not unite the well beyond the himm. When however, there it was distinct pelves within the himm, and each has its separate calices and unter the condition must be considered as an anomalous duplication of the pelviss and becomes of practical importance.

Division or partial displication of the wreter. The wreter may divide at any part of its course. The most frequent point of division is at the first portion of the wreter, where two more branches of the uterer leave the hilum and unite at a short distance. The diagnoss of pelvic duplication can best be made by means of the pselograph. It is of surgical importance when resection is indicated.

Ipsen. Researches on the Tumors of Grawitz, Bettr z path Anat u z allg Path, 1912, hv, 233 By Surg, Gynec & Obst

It is generally admitted at the present time that the majority of tumors of the kidney which are characterized histologically by the presence of large vicuolated cells of polygonal contour have

their origin in the embryonic debris of suprarenal tissue which has been embedded in the body of the

kidnes

Insen claims that this theory, while generally accented since the work of Grawitz (1885), nevertheless calls forth serious objections. The majority of tumors which unquestionably develop from the primary or accessory suprarenal capsules, but which are extrarenal, have a structure totally different from the tumors of Grawitz, notably, they never present the papillary formations which are generally found in the tumors of Grawitz Moreover, these tumors have their seat of predilection in the region of the inferior pole of the kidney, while the intrarenal capsules by preference occupy the superior pole of that organ Insen finds, on the other hand, many points of similarity between the tumors of Grawitz and certain adenomatous tumors the renal origin of which is universally accepted. He thinks that the cellular peculiarities of certain portions of the tumors of Gravitz are due to phenomena of degeneration

In conclusion, the so called hypernephromata appear to develop at the expense of the renal parenthyma, as claimed by Sabourin, Sudeck, and Zehbe E S TALBOT, JR

Stusser Primary Epithelial Tumors of the Renal Pelvis. Bestr z klin Chir , 1912, ixxx, 595. By Surg Gynec & Obst

The author reports a case of primary epithelial tumor of the pelvis of the kadney, and sums up his article with a fairly exhaustive tabulation of all similar cases that he has been able to collect from the Interature. The case reported is that of a woman 65 years of age who for some weeks had been conscious of the pressure of a tumor mass in her left flank. There was no associated pyinns or hematuria. This tumefaction, occupying the left flank changing above beneath the costal arch, and dasoppeared above beneath the costal arch, and absolutely dull to percussion and was fluctuant it simulated an ovarian cyst which was attached to a long pedicle.

The patient recovered from the immediate effects of the operation, but a secondary involvement soon occurred, and death followed at the end of four months

Examination of the extirpated kidney showed that the real pels had been enormously distended, and thickened and hard infiltrated areas which were raised above the surface and projected into the cavity, appeared throughout its wall. Microscopic examination of these hard papillary projections showed them to be composed of pavement puthelial cells mulignant in chiracter. The real parenchyma was very much flattened and showed areas of degeneration. It is probable that some chrome kidney irritation preceded this epithelia cells are consideration and the supplication in the probability of the proposed proposed that the probability of the

Bazy and Buzy: Should We Suture Incisions of the Renal Pelvis and of the Ureter? (laut il suturer les incisions du bassinet et de l'uretére? J dl rol , 1911, 11, 645 By Journal de Chieurne

The authors must upon the advantages and the indications of pyelotomy Pselotomy is the opera tion of election, nephrotomy, on the contrary, is the operation of necessity Pyelotomy is indicated not only in small calculi of the pelvis, but in large and ramified calculi which, if removed by penhrut omy, cause much tearing of the renal substance Nephrotomy will be reserved for calculi in the calices near the cortex of the Lidney

Concerning suture of the ureter or of the pelvis in 16 operations the authors performed it 11 times, s times, for divers reasons, they could not do it In the 11 sutured cases, o patients made an extreme ly rapid and uneventful recovery. In the s nonsutured cases, the patients recovered with a few simple accidents - discharge for a time of urine through the operative wound, abscess in the ab-

dominal wall etc

Therefore they conclude that in all cases where it is practicable suture gives superior results, and it should be practiced whenever it appears possible In order to avoid injection of the wound in injected cases, drainage of the ureter is preferable to suture Furthermore, it permits lavage and disinfection of the pelvis. It seems that wounds of the ureter show less tendercy to spontaneous braking than wounds of the renal pelvis, and that the indications to suture them are more imperative. One must avoid denuding the urinary conduits, it is a frequent cause of non healing in ureteral and pyelitic wounds The suture of the urcter is effected by three or four non perforating catgut stitches, which suffice to approximate the edges of the wound. This may be reinforced by suture of the surrounding connec tive tissue lavers However, suture is not absolute ly essential. One should not perform it when it appears too difficult, when it has no chance of giving a satisfactory result when it is dangerous to the ultimate integrity of the caliber of the urinary channels or when it is necessary to abridge the duration of the operation I TANTON

Schwyzer. Conservative Surgery in Purulent Infections of the kidney St Paul M J, 1013
By Surg, Gynec & Obst XIV 549

The progenic non specific infections of the kidney are. (1) pyelitis, (2) primary pyonephrosis, (1) infected hydronephrosis, (4) hematogenous ab scesses of the kidney substance

Of each case examples are given of individual Pyelitis may be treated by nitrate of silver irrigation of the kidney pelvis or removal of a calculus (cases mentioned)

As an example of a primary pyonephrosis a case is cited where apparently a ureter had been caught by a ligature at a former bysterectomy The kidnes was drained, 18 days later a stone and a stricture

of the uniter were removed, with smooth recovery and preservation of the large kidney

As an example of an infected by dronephrosis a case is cited with 16 quarts of ous in the left kidney, through the sac of which every abdominal organ could be palpated including the kidnes of the other side Kidney not removed Permanent recovers without Satula

As representative of the multiple ha matogenous abscesses of the kidney substance (surgical kidney) a case is reported with severe multiple infection of the upper third of one Lidney with temperatures for four weeks of 103° and 104° daily The remaining two thirds of the kidney were normal Resection of the septic upper third of the kidnes was followed by prompt and smooth recovery

Fisner Renal Hæmsturja Im J Urol , 1012 voi By Surg , Gynec & Obst.

I laner calls attention to the newer methods which make the localization of Jesions in the cenitourmary tract possible, though they still fail in many cases to make positive the true pathologic condi-

The article is founded on the carefully reviewed histories of 4832 consecutively examined cases of internal discuse The unexpected frequency of perhittis as a cause of blood in the unne is demonstrated. The cases included 220 of chronic interstitual nephritis of which is per cent showed blood in the urine 14 cases of acute tubal nephritis, all of which had bloody urines 77 cases of chronic interstitial nephritis of which 14 per cent showed bloody urine, 8 cases of secondary congested kidney in all of which urines were bloods. There were ? cases of tuberculous nephritis Of the 128 cases of nephritis there were only 12 in which harmaturia was profuse or alarming. The author dilates on the frequency of perbritis as a cause for hamatura to which but scant attention has been given in the past clinical material is considered under the following divisions

In chronic tubal nephritis one kidney may bleed though both organs may be equally invaded or the two organs may alternate in supplying blood to the urine. The majority of renal hamorrhages due to tubal pephritis are painless and may continue for weeks Latency of nephritis during long periods following firmaturia may mislead, as may also the segregation of urine from the bleeding kidney for the diagnostician may be led to surgical interference in the presence of grave constitutional disease with advanced or latent nephritis in the non bleeding

kidnet The author believes that profuse hamorrhage with chronic interstitial nephritis is more frequently due to changes in the pelvis of the kidney than to any other single cause

3 The author does not believe there is such a condition as essential harmaturia and advances arguments against such assumption

4 Renal hematuria with gouty diathesis, in

which there may be a latent nephritis without

5 Rare cases of paroxysmal hematuria, in which the chilling of the surface provokes bleeding. The majority of these ultimately die of nephritis after a long history

6 Renal infarct associated with septic fever, often malignant endocarditis, as a cause of hæmaturia is fully considered

7 Cases of acute or chroate primary infectious pelitis, non-calculous with moderate himitura. The history of these cases is characteristic, including temperature curve. They are more frequent in women, often during pregnancy and at the mensirual period, the pelitis is infected usually by the bacillus coli communis, occasionally by other bretens. (Frankel and Friedlander) and the Lenhartz paratyphod bacilli. The infection is direct, not of the seconding type. There are cycles of fever, assorted remissions. The disease is usually right sided and the kidney is palpable and tender. The paper further considers the causes of poinful himituria dependent upon renal invasion.

The author concludes that it is wise to extend our search beyond the kidney to the heart and blood vessels, to study blood pressure and the background of the eye in conjunction with modern methods that safe and sine conclusions may be reached.

Suter: End Results in Sixty Nephrectomies for Tuberculosis of the Kidney (Ueber die Dauer resultate on 60 Nephrektomies wegen Nieventuberculose) Manchen med Wehnschr 1912 ltz, 2437 By Surg Cypice & Obst

Suter reports his experience of the last 65/2 years He emphisizes again the fact that the majority of patients with tuberculosis of the kidney show initially the picture of vesical catarrh. Of his 60 patients, 53 presented these symptoms, only 7 complained of pain in the kidney region, or the disease was discovered accidentally during routine examination of the urine The author prefers ureteral catheterization, occasionally the separator is valuable. One patient died 24 hours after opera tion. He was 48 years old. The kidney and bladder were involved and his general condition poor Autops) revealed an extensive caseous tuberculosis of the perstoneum, the remaining kidney was intact Fifty-nine patients survived the operation, of these 4 died later (remote mortality 6 6 per cent) first of these patients was tuberculous and had undergone a double castration two years prior to the nephrectomy The second patient, a woman 27 years of age, retained a severe bladder tuber culosis after the operation, with little tendency to healing She died 2 years later subsequent to a confinement The third patient had a bilateral kidney involvement and a tubercular cystitis This improved markedly, but she succumbed to uramia 33/2 years after operation The fourth patient, a young man 22 years of age was operated upon for

incipient right sided renal tuberculosis. Six months after operation he had renewed symptoms of vesical tuberculosis, the prostate and seminal vesicles became involved. Tuberculin treatment continued for a year was of no avail. He died of miliary tuberculosis At autopsy the remaining Lidney was found to be sound. Lifty-five patients are still alive Tive of these are not considered, because the operation is of too recent a date. The results in the remaining so are as follows Complete cure in 28 (56 per cent), considerably improved, 17 (34 per cent) Of these later 5 have clear urine but still complain of bladder symptoms probably due to cicatrices One patient still has a fistula and 11 have Little improvement is present in 5 (10 cy stilts per cent) One of these cases a man 45 years of are has vesical tuberculosis and marked albuminuria He was operated upon in 1003. Another case was operated upon in 1000 and has a similar bladder affection, but a sound kidney Three cases were operated upon in 1911 and still offer hope of improvement One of these, a woman 21 years of age, has improved much in general health but still shows considerable bladder involvement. Another, a woman 46 years old, has much bladder disturbance and albumin, the remaining Lidney is not tuberculous. The third also a woman, 46 years of age had bilateral kidney affection prior to operation One kidney was removed because it was totally destroved, causing the patient to be bedridden and unable to work on account of the high temperature. The nationt is now able to work, but her bladder is involved and she is not able to take proper care of herself. For the prognosis regarding post operative results the condition of the bladder is of utmost importance. The capacity of the bladder for the three divisions was as follows. The cured, 270 cc : the improved, 150 cc, the little or non-improved 130 cc Twenty-seven of the patients were males and 33 females Genital tuberculosis complicated the kidney tuberculosis in 27 per cent of the males (16), only I woman had this complication. The frequent complication of the genital organs makes the prognosis for the male more unfavorable Recoveries in women are nearly twice as numerous as in men Suter finds no objection to marriage in a woman who has recovered from a renal tuberculosis Pulmonary tuberculosis as a late complication is not prominent in Suter's cases while the collective statistics of Israel show over 50 per cent of deaths due to pulmonary tuberculosis. The cases occurring in the cortex were predominant in Suter's cases and exceeded the variety beginning in the papillæ kidney was totally destroyed in 16 cases. In a few cases the ureter was occluded Suter is in favor of operation in renal tuberculosis, despite the few cases of spontaneous recovery which have been published Procrastination, especially in men, invariably leads to development of genital tuberculosis Nephrotomy was done twice on account of technical obstacles to extirpation Both cases were later nephrecto mized and cured In two other cases it was performed for diagnostic purposes. The result was not aslicatory. Both pritents, mon between 40 and 50 years of age, died—one from thrombophlotitis of the crural's earn and embolism, the other from embolism. Fost mortem examination showed tuber cultoss of the spik kalney in both crues, the second colors of the spik kalney in both crues, the second of rend tuberrulous must be briefly the continued of rend tuberrulous must be briefly continued and the continued and the continued cases unoperated. Surr's experience with tuberrulous has not been satisfactor. I C. Russi.

Mayor Nephrectomy without Drainage for Tuberculous Kidney, Surt Gync & Ohr 1912 N. 523 By Surg Lynce & Ohst August high the head of the form of the control of the control

A sinus which is slow to heal often forms following nephrectoms for tuberculosis of the kidnes particul larly in debilitated patients in whom the second kidney is somewhat involved. In operating a large accumulation of clay like fluid may be found outside the kidney After removing the kidney treating the ureter and morning out the wound as well as possible the cavity is tilled with normal salt solution and the wound closed without draining. Primary union prompt and permanent recovers usually follow The compensatory hypertrophy of the remaining kidney exidently furnishes sufficient hyperarms to destroy such infection as may have existed within the substance of the remaining kidnes The normal salt solution enables material which is infected with tubercle bacille in the attenuated state to be safely absorbed because diluted and absorbed qually before there is an opportunity to establish favorable cultural conditions. In cases in which the tuberculous material has not escared into the wound and the patient is otherwise in good condition there is, of course no necessity for using the salt solution

You dramage should not be employed if avoidable. The stump of the urter is a source of possible infection in the wound. Many surgious either remove the kidney and urter; completely at the primary operation or they nature it is stump of the urter; to the kin with a protection of the wound. Aureter treated by injecting roto 20 mm of carboin and (fluid op specient) will fairly just trouble later.

Liver, effort, should be made to remove the theoretions kinker without the escape of its contents, and to secure this result in a dequate mission is eventual. The patient is placed on the sound adde to the sound the sound in t

Heitz-Boyar Pseudo-Cure of Renal Tuberculosis by Conservative Treatment, Partial Exclusion (Pseudo-gudrism de la tuberculose éfiale par le traitement conservatif exclusions partielles) J d bral 1913, il 091 III Journal de Chiturgie

The author has shown in previous works that socalled cure of renal tuberculosis by medical treat ment is only obtained by the exclusion of the dis eased kidney, and this pseudo cure is very uncertain, because there may develop inadiously in the other kidney serious nephritic leisons exposing the patient to most serious accidents. There are a few exceptional cases where unretend eathermaxion has permitted the collection from a kidney previously mitted the collection from a kidney previously characteristic and the infection and the presistence of kidney function.

Baing his opinion upon anatomical and pathological data the author states that in these cases we are dealing not with a curative process in the true meaning of the term but with the phenomena of exclusion functed to the diseased portion of the kidney. This fact is in harmony with the habitual mode of tubercular renal contamination this con-

tamination being essentially regional parcellars Furthermore this partial exclusion instead of being a safeguard to the remainder of the kidney seems to expose it to the permanent danger of later contamiration Successive contaminations of different parts of the same kidney leaving between the attacks an interval sufficiently long to permit exclusion of one focus may be accompanied before the disease localizes itself in another area by intervals of apparent good health and of clinical remissions which can easily give the illusion of core author reports a case in confirmation of his thesis In the kidney shown active tuberculosis had been present at two distinct periods, separated by an interval of apparent cure, which corresponded to a localized exclusion of the first lesion LTMM

Guthbertson Displaced and Morable Kidney in Women Its Symptomatology, Diagnosis, and Treatment in J. Dermit & Gento Des By Surg Gyner & Ober

The pathologic condition in women produced by displaced and movable kidney has not received the attention it deserves at the hands of the medical profession.

Authors say, sadely in their estimates as to the frequency of occurrence of displaced kidney. Some base that observations on post mortem examinations others from chinal observations. I sate saverage would be from, to 2 per cent in some firm 2 to 3 per cent in men. There is no question but that a much larger proportion of people have no discomfort they are not to be considered in this connection.

Treatment. There are two waves open for remediaing this pathological condition met, by prosthetic appliances and second by surgical menus. In this women the author has been able to apply a kidney pad which will hold the kidney in place and relieve the wroptoms. As soon as the wearing of this ped is devonationed all the symptoms return. The presentation of the properties of the pedial to the summer, and soon becomes burdenessen. The most satisfaction, treat meet is purely surgical.

Short reports thirty cases treated by the following methods

	Cases	Cured	Comp tehef	Little or no relief	Death
Transcortical suturing Fixation by capsule only Pure carbolic acid and gauze sling	14 8 8	3 5	1 3 1	4	0

In the transcortical suturing the satures were peased first through the capsule, which had been stripped off, and then through the kidney substance Secondly, the capsule was surpled off and sutured on either side to the muscles of the microon. Thurd by, the capsule was switched on the pure carbolic acid, the kidney replaced and supported by a gauze sing. He points out that the greater proportion of successes resulted from the carbolic acid gauze sing method

Rest in bed and the application of heat or cold, with the administration of sedatives, are only applicable in cases of Dietl's criss Massage and electricity are only mentioned to be condemned, as they are nothing but a waste of time

My experience would indicate that the ingestion of higaly nutritious foods, with the object of increasing the perirenal fat, is not to be depended on, as two of my cases which relapsed both gained 20 to 30 pounds in weight, and still the kidney did not stay in place

Billington reports a large number of successes by stripping off part of the fibrous capsule and hanging it over the twelfth rib, reinforcing it by catgut sutures through the kidney

Carstess makes a vertical incuson in the back at the junction of the erector spine and quadratus lumborum muscles, and after separation to the incuses the fibrous capable by a Capable incuson, without delivering the kidney, and stitches medges of the capable to the edges of the muscles on either side with a continuous catgut suture. He reinforces this by a broad strip of adhesive plate extending from one side of the body to the other, diagonally, after the incusion has been closed

I have had experience in operating on 25 cases
of these I have reports on 15 in only 3 of these
15 cases had the kidney float become displaced
during a period ranging from the case with the control of the case of the case

My method of operating has consisted in opening the loin by an assistant from the outer side of the terctor spine muscle, beginning at the lower margin of the twelfis, and extending obliquely downwards and forwards above the crest of the illum, as far as necessary Through this mission the kidney is delivered examined carefully for stone, hydro-

nephrosis, or tuberculosis, the fibrous capsule incised along the convex border, the capsule peeled back on both sides and rolled up Three sutures of No 3 chromicized catgut are first put through the transversalis fascia and the muscles on the outer side, then through the capsule, the kidney cortex, the inner roll of capsule, and, lastly, through the muscles on the inner side of the incision One suture is placed at the lower pole, the second through the middle of the kidney, and the third through the upper pole The kidney is then replaced and pushed up into its natural position, taking care that its normal axis is restored, and the sutures drawn comfortably tight and tied Next, Senn's method of placing gauze below the lower pole in the space formerly occupied by the displaced kidney is resorted to, the end being brought out of the wound for drainage. The incision is then closed by long, stout, silkworm gut sutures, and a large, copious dressing applied

Mursell: Successful Removal of a Tumor in the Adrenal Gland. Bril M J, 1912, Nov, 1170 By Surg, Gynec & Obst

In 1907 Mursell operated upon a woman aged 39 years, 12 days after labor She presented a hard movable tumor in the left lumbar region. It was not movable laterally Symptoms of acute intestinal obstruction were present. A diagnosis of a pararenal condition was made and the abdomen was opened to disclose a retroperitoneal cystic tumor The contents, consisting of old and recent blood clots and fluid blood, were evacuated None of the wall of the cyst was removed In 1912 the patient again presented the symptoms of acute intestinal obstruction Since the former operation she had been very well, though she had had some loss of weight and had moderate left lumbar pain. In the left loin was a densely hard tumor, movable anteroposteriorly but not vertically The colon was in front of the tumor Operation Oblique left lumbar incision disclosed a large dense tumor with a dense fibrous capsule The tumor was about twice the size of a foetal head. It was easily separated from the kidney, which was pushed down into the left iliac fossa Separation from the diaphragm and peritoneum was more difficult The tumor was reported pathologically to be hypernephroma patient left the hospital on the 20th day, well The author says that this is the first case reported of removal of a suprarenal tumor by the lumba 10CISION M S HENDERSON

Kuss Foreign Bony Vesical Bodies, Especially Intravescal and Intransterral Inflammatory Sequestra of Pelvic or Veteral Inflammatory Sequestra of Pelvic or Veteral Bodies of corps étrapages sossue de la sesse lorgia (pelvin ment des séquestres inflammatores inflammatories intra utérétaut dongine pelvienne ou vertébule) Reports of Harimann's Clinics, 4th series, 1012, 244. By Journal de Chritogue

The author proposes the following classification of bony foreign bodies found in the bladder. 1.

Obscous bodies foreign to the organism introduced (o) through the natural chundles, (6) through penetrating wounds (buttons, etc.), (c) by way of vession intestinal institute 2. Osseous foreign bodies of embryonal or fertal origin, originating (a) from dermoid cysts, (b) from an extrauterine gestation 3. Foreign bodies of skeletal origin, (a) trumstic ignumbot wounds, fricture of the policie bones), (b) non traumatic (inflammatory sequestra). Having had a case of the non traumatic group second to a pelvic osterits, the author collected the case previously published and discussed this exceptional

The patient, a male 30 years of age, had a pathological past. At the age of 18 he had an osteo myelitis of the pubis necessitating curettage of the bone, and for about 8 years accompanied by abscess formation and fistula. It the time this osseous lesion appeared cured, the first urinary disturbances became manifest - hamaturia and pyuna, and on several occasions the patient expelled through his urethra small bony fragments which were designated calcula by his physician life was treated for gonorrhoal cystitis with permanganate irrigations and for stricture by linear electrolysis Shortly after this a perincal abscess appeared which rup tured and led to a fistula formation. At that time (July, 1905) an external urethrotomy was performed and the fistulous tract removed. Two months later the patient came back with an orchitis and a urethral discharge, a foreign body could be felt in the urethra on the proximal side of the cicatrix Hartmann also performed an external urethrotomy and removed a sequestrum 25 x 11 mm The nationt recovered but had a new attack of osteitis at the level of the iliac crest which necessitated curet tage of the bone

In the literature huss has been able to find only 20 analogous cases - 18 in males, 2 in females He has found to osteomyelitic sequestra of the pel vic bones, o sequestry of hip joint origin and the unique case of Buxton Browne, in which the intravesical sequestra originated from a Pott's disease of the eleventh and twelfth dorsal and first lumbar The penetration of sequestra as well as the intravesical evacuation of the abscess are effected by a slow and progressive ulceration of the blidder wall The perforation may ultimately heal in the bladder the sequestrum may be latent. There may be cystilis, etc. Vesical intolerance occurs or the sequestrum may become incrustated and form the nucleus of a phosphatic or urophos phatic calculus Often, if the sequestrum be small it will be expelled at time of micturition, if volu minous or irregular, it becomes impacted in the urethra and causes accidents - dysuma, penurethral abscess, urmary infiltration, or fistula

The symptoms are those of a foreign body. The history, the presence of catantees evidences of an old ostetus or a hip classes are suggestive of the condition, though a correct diagnoss; is usually made only at the time of operation. The treatment

Consists in the immediate ablitton of the sequests. In 8 cases of sequestar impacted in the interfact Kiss succeeded in 3 cases in removing the sequestar by the natural channels, in scase sate rate methodomy was done (4 cures and 1 death), in three cases there were gures, in 1, cases of vesscal sequestra or vesscal calculu with a bony nucleus, it performed lithority? times with 5 cures, it recurrence, and i death he incosed the bladder 5 times and had 3 cures and one death C & LECOMMAY

1 ewis: The Removal of Ureteral Stone by Cystoscopic Methods. V. Y. M. J., 1912, 2021, 2022. By Surg. Gynec & Obst.

The subject is presented from the urological standpoint, and presents a forceful argument against the custom commonly carried out in both the practice and writings of many practitioners, of ignoring the importance and capabilities of cystoscoric methods in removing or assisting in the removal of stones from the ureter. It is pointed out that most of the contributions on ureteral surgery, both in text books and in essays, either fail to mention this method, or allude to it in such a way as to indicate that it is a feat more or less dubious and untrustworthy The impressions of several authors along this line are cited, indicating the tack of esteem in which it is held, and the further fact that they advise going direct from the expectant plan of treatment to the open operation by abdominal incision

The author quotes from a number of other writers showing that the non cystoscopic plans of expectant and operative treatment are not all sufficient, thus indicating that there is both room and need for utilizing the cystoscopic method, provided it has a modicium of success to justify it

listones of dangerous or disastrous conditions courting in connection with open operations in the hands of such men as Deaver, Isaxes, Moschowitz, of those gentlemen, and the situatistics of 134 cases collected by Tenney, in which the open operation was followed by a mortality of surprising distinct on the control of the property of

The best claim for the efficiency of the expectant plan is made by Lester Leonard, who declares that it proves successful in fifty per cent of all case of ureteral stone. This leaves fifty per cent of all cases insuccessfully met by this method of treatment.

On the other hand, what of the cvstoscope plant-The records of medical history tells us of a sufficient number of successes attained through cystoscope. measures to warrant their use under conditions recognized as favorable for their success. Successes, have been reported by Howard Kelly, Moschowitz, Young, Kreissl, Casper Kolscher, Schmidt Braasch, Branford Lewis, and a number of others The cystoscopic methods employed ranged from the utertain lupiction of oil or glycerin to the userforceps, dilators, scissors, sounds and other cysto-scopic accessories, and have referred to calcula impacted in the ureter at various points Naturally, the lower the impaction in the canal, the more accessible to cystoscopic manipulation and the greater probability for the success of the method the low situation makes it relatively easier for cystoscopy, it is generally agreed that it is the low lying stone that is most difficult of access and removal by the open operation. According to statistics, the lowermost portion of the canal is the one in which the great majority of stones are arrested Tenney declares that comprehensive statistics show they are found here more frequently than in all other situations put together, and over two and a half times as frequently as at any other single location Therefore it would seem that in selected cases, especially in those of low ureteral impaction, the cystoscopic method of removal offers by far the best hope of success

BLADDER, URETHRA, AND PENIS

Zuckerkandl Vesical Retention of Urine in Villous Turmors of the Bladder (Vesikale Harnstauung bei zottigen Blasengeschwülsten) Müncken med Wehnschr, 1912, 1, 2570 By Surg, Gynec & Obst

Villous tumors of the bladder, with short or long pedicle, may cause all known forms and degrees of vesical retention of urine, when they are located at or near the orifice of the bladder. Even large tumors of the trigone, however, do not necessarily result in retention. With the first mentioned tumors the sphincter relaxes, the soft tumor sinks into the urethra and is pressed further and further by the detrusor With the growth of the tumor micturition becomes more and more difficult until the function of the bladder partly or completely ceases Of 82 cases of pedunculated tumors of the bladder operated on since November, 1908, 3, or 3 6 per cent, had caused retention of urine and were cured by excision Cystoscopic examination is demanded in all cases of chronic, complete or incomplete retention of urine, as the presence of tumors may easily be mistaken for hypertrophy of the prostate

O'Neil. Cancer of the Bladder. J Am M Ass, 1912, lix, 1785 By Surg , Gynec & Obst

O'Neil limits his discussion to that type of new growth which is early indiffrating and which requires resction of more or less of the bladder will for its removal. There are no symptoms which will dis linguish this from other bladder tumors. A comparatively long time may elapse between the appearpearatively long time may elapse between the appearties of the control of the control of the growth outer the symptoms and extremsion of the growth outer the control of the control stelly be made by cystosopy. He advocates transperitoneal cystotomy, and reviews the results transperitoneal cystotomy, and reviews the results to far obtained by this method. At times it will be impossible to tell, previous to operation, whether or not a tacking termoval can be attempted. An ex-

ploratory suprapubic cystotomy should be done, and then if radical excision seems advisable it can be done by extending the operation to the transperitoneal route

L G Dwan

Hartmann: A Few Remarks Concerning Forty-Seven Operations for Tumors of the Urlnary Bladder (Quelques réfexions à propos de 47 opérations pour tuneurs de la vesse) Reports of Hartmann's Clinics, 1912, 4th series, 207

By Journal de Chirurgie

With the exception of one case of myoma, which recurred after two removals by the abdominal route and which eventually ulcerated the abdominal wall and caused death, all the tumors observed by Hartmann were epithelial neoplasms, papillomata, or carcinomata. The author differentiates two types of tumors—tumors projecting into the cavity of the bladder and infiltrating tumors.

Non unfiltrating tumors Twenty operations upon 25 patients Two cases have been operated upon several times for recurrence The immediate results are good, with only two deaths, both independent of the operation (strangulated herma and cerebral himorrhage). The late results are encouraging Nine cases have been followed, and the author finds there have been 6 cures lasting from three to seven years, 2 recurrences, and one death, due to rectal cancer.

Infilitating tumors: He has had 26 cases. In only 9 patients did be perform a radical operation; that is, a partial cystectomy. The results as given—one operative death, one death from pyelone-phritis two cures that are now five and nine years old—are not bad when we bear in mind the usual gravity of these tumors. These are cases in which the summit of the bladder was rescreted.

In 17 other cases the author performed palliative operations — vesical cystotomy, supplemented by curettage and cauterization of the tumor. The operative mortality is high. The results obtained are so mediocre that Hartmann believes that in the absence of intolerable pain or of hamorrhage directly menaring life, it is better not to intervene

CH LENORMANT

Judd Results in the Treatment of Tumors of the Urnnary Bladder. J Am M Ass 1912, xx, 1768 By Surg, Gynec & Obst

In the surgical treatment of tumons of the unnary bladder, the anatome relationship must be preserved in order to maintain function. While most tumors of the bladder are pupiliomata, they occur frequently in multiple form. The large tumor is apt to overshadow the smiller tumors, one of which may easily escape notice. A large percentage of tumors of the bladder occur in the base or on the wall close of the bladder occur in the base or on the wall close of the bladder occur in the base or on the wall close of the bladder occur in the base or on the wall close the bladder of the bladder occur in the base or on the wall close the bladder of the bladder occur in the bladder of the bladder of

The methods of operative procedure and treatment must be determined (1) by the general enotation of the patient, (2) by the cystoscopic findings Attenosclerosis, renal insufficiency, myocarditis, etc., are factors contrandicating radical procedures Binamousle samination by vagina in the female and diagnosis, as thus we may be able to protein in the diagnosis, as thus we may be able to present and extent of judicution. Many times cases will be eliminated in which otherwise operation might be attempted. When possible a specimen of the growth large enough for a microscopic exam majorn should be exerced through the Cystoscopic.

One of the chief advantages in the transperitoneal operation is that it affords an opportunity to observe the pelvic lymph nodes and the abdominal viscera

The technical points in the various types of operations for tumors of the unianzy bladder have changed very little in the past few years. We believe that in these operations as well as in operating on any other malignant tumor, the tumor should either be excessed with the cautery, or the cut edges distributed with the cautery, or the cut edges the thoughly cauterized. This is especially important in all parillomats.

If patients can be seen earlier and the technique can be improved so that a more adical excision may be done with a greater degree of safety the results in the treatment of tumors of the bludder may be made to compare favorably with the results in the treatment of malignancy in other organs

Lower Suprapubic Cystotomy for Vesical Cal-

culus, Indications and Operative Procedure

J Am W Ass., 1912 hz, 1956

By Surg. Gynec & Obst.

Loner savs each year brings a better record for the suprapubic operation, while there has been but hittle advancement for the crushing operation. A very large prostate an encysted stone or a stone with a foreign body as a nucleus are contraindications to the successful use of the lithoritie. For these cases suprapubic cystotomy is recommended.

Indications for suprapible cystotomy are stone too large of too hard to be grasped by the librate energisted or adherent calcult presence of multiple stones, in the young in old men with prostate by pertrophy, calculus projecting from the end of the uncert and foreign body as a nucleus of the stone of the contract of the stone of the contract of the contract of the contract of the contract of the superpuber route 51 times in 40 cases with no deaths. Until a practical observing intofattle is inwented, suprapible cystotomy must remain the method of choice by the majority of operators.

Greensfelder and Gatewood A Case of Pseudohermaphroditism Surg., Gyace & Obst. 1912 xv. 582 By Surg. Gynec & Obst.

A case of pseudohermaphroditism belonging to the masculinus internus type is reported by Greensfelder and Gatewood, of Chicago The patient was 27 years of age, married, and had one child. He entered the hospital on account of a dull, aching pain in the back and the sacral region, which had been present intermittently for eight months, during most of which time he had blood in the stools Constinution had been present and he had passed much gas and mucus per rectum months previously he had been operated on for an inguinal hernia and was told that a uterus and ovary had been found. In less than a year he had lost 30 nounds Had no cough and no night sweats Previous and family histories negative On exammation a diagnosis of carcinoma of the rectum was made and the patient was operated on by Dr Greenslelder When the condition described below was found Dr Frankenthal was called in to perform the gynecologic part of the operation. The broad heaments were found in the usual location In the position usually occupied by the uterus, an organ resembling a uterus with a much elongated cervix was found In about the normal position of the ovaries were two oval bodies, which were thought at the time of operation to be ovaries A tumor mass about the size of a small apple, was adherent to the rectum and there was other evidence of carcinoma \umerous hard masses were present about the base of the organ which was supposed to be the uterus and it also was thought to be car cinomatous The uterus and adnexa" were removed About eight inches of rectum was then resected and the two ends of the gut brought tom ther by an end to end anastomosis

orgitaer of an end to end anastomous . The specimen removed at operation consisted the character but which on an endoceptic examination proved to be the testificity. I wo triangle shaped bands the broad legaments, and an iongazed, roughly chindreal mass the uterus lying between them. The seminal vesicles were placed on either side of the uterus and empired into the prostatic arethra. I small oval body just below each testificial and extending a luttle external to it proved to be epidalymes. Ducts from these passed close to its side until they empired into the prostatic portion studies are done to the prostatic portion they are all the state of the prostatic portion of the prostatic porti

GENITAL ORGANS

Fuller Seminal Vesiculotomy, Its Purpose and Accomplishments J Am M Ass 1912 lix 1959 By Surg Gynec & Obst

I ulter refers to his former article for description of this operation. He offers suggestions for discours of this operation. He offers suggestions for discours and intelly discousses the regional anatomy. He groups his cases according to the prominence of clinical symptoms. (c) utnuary, (2) gental, (3) nervous and mental, (4) rheumatic. He his done 234 operations of seminal resculotomy with no mortality, and reviews the results obtained in the foregoing groups. Retention follows about once in five cases.

Of 89 theumstic patients there was not one who was not relieved in a most radical manner. Lighty per cent were well and free from all symptoms when they passed from observation a month or six weeks after L G DWAY operation

Judd: The Technique of the Operation of Suprapuble Prostatectomy with a View to Reducing the Length of Time of Convalescence and Insuring a Good Functional Result. J Lances, By Surg Gynec & Obst 1912, XXXII, 589

Until within the past few years the perineal operation for removal of the hypertrophied prostate was the operation of choice in many hospitals in this Advocates of this method argue first that the mortality is less and second, that the time of convalescence is shorter since the perineal wound heals more quickly than the suprapubit A more careful study of the cases however would indicate that the mortality is not directly the result of the operation but depends upon the functional capacity of the kidneys the condition of the heart and the general circulation, which is true in either operation

The treatment is usually divided into two stages First, to relieve the nationt of residual urine and to treat the cystitis should it exist. Urine retained in the bladder should be withdrawn graduilly many instances it will require several weeks to carry out this treatment. Second after the reaction due to the withdrawal of the urine has passed the removal of the obstructing prostatic gland can be carried out. This procedure will be accomplished more satisfactorily and safely because of the pre-

liminary treatment

The functional results so far as the patient's ability to absolutely control the urine is the most important factor in the treatment of these cases This result is attained in the perineal operations in a large percentage of cases and always follows the

suprapubic method

Operation The abdominal incision is made in the usual way and the recti muscles senarated fat in the suprapubic space is dissected off from the fundus of the bladder and the perstoneum pushed back. It is very essential that the peritoneum be stripped well back and that the bladder be lifted up as far out of the abdominal incision as possible With the fundus of the bladder bited well out of the abdominal incision, the wound is packed off with gauze, the bladder, which a few minutes before has been cleaned as thoroughly as possible is now opened by free incision usually about 2 inches It is well at this stage of the operation to examine the bladder for stones or other lesions especially important if it has not been possible to make a satisfactory cystoscopic examination With gloved fingers of the right hand in the rectum the gland can be pushed well up into the bladder. The first, and if necessary the second fingers of the left hand are introduced into the bladder. The enucles tion should include the entire hypertrophied part of the prostatic gland If enucleation be done within the capsule and the hypertrophied part of the

prostate be entirely removed, there will be very few cases in which it will be necessary to use even a gauze pack to stop the bleeding Sharp hemorrhage may be caused by dissicting outside the capsule into large vessels or by leaving a piece of the prostate in the capsule. If the gland be entirely removed, the capsule will contract and the chief bleeding will be the oozing from the mucous membrane edge in the urethra and bladder

As soon as the gland is removed the blidder is freely arrigated. If oozing be slight as will be the case in a good percentage of cases the wound in the bladder is closed completely as draininge through the urethral catheter will be sufficient. If oozing continues and clots form in the bladder a fair sized tube is accurately sutured into the upper angle of the wound in the bladder. This tube is removed in 24 hours and a catheter inserted

The chief disadvantage in suprapulic operation is infection in the space of Retrius and this techmove gives as little chance of infection as possible

The Surgery of the Prostate, with Deductions from Fifty Consecutive Cases. J Im Inst Homeo 1912 1 452 Its Surg Gynec & Obst

In the average person pres nted for surgical relief of the enlarged prostate an extension of five

or ten years of life is the object of greatest moment. The control of unnary stream with absence of tistuly and the lowest possible mortality are of most importance in on ner cent of these cases advice for early operation is more freely accepted the question of retaining normal sexual function will become correspondingly more important would seem that a complete removal of the prostatic urethra were more advisable than to have a part of it remaining for the reason that the bladder may settle down into the casity left by the removal of the hypertrophied prostate and any remaining urethra might cause obstruction or tortuous passage

The after care for this operation is easy while in bed. We are able to get our patients out of bed in from five to seven days except in the case of the The upright position thus facilitates oldest men better dramage and seems to encourage the flow through the normal untithra more promptly

We find the median vertical skin incision always sufficient, and it has the advantage over the inverted I incision of healing more promptly. The urethra is incised at the apex of the prostate, and a clean cut made through the floor of the prostatic urethra. guided by a grooved staff. The prostatic capsule is opened and the gland peeled out from within the urethry If found necessary the prostate is brought within reach of the finger by means of the Young prostatic tractor Resulting from our first 50 prostatectomies there were two deaths. There was one post operative urethral perineal fistula as above described Pathological findings show six cases of adenocarcinoma One of those cases is dead, and the others are well and hving at the present time. The remaining 44 cases were adenomatous hyperplasia. fibrous hyperplasia, and thronic gonorrheral inflammations, their frequency being in the order mentioned

In conclusion, perment prostatectomy is an operation of low mortality rate, it offers drainage at the natural point; it makes possible the shortest time in bed, and the final results are equal to the suprapubic route when the operation is properly performed.

Wilms: Results of Perincal Prostatectomy with Lateral Incision (Die Irfolge der nach meiner Methode ausgeführten Prostatektomien mit seitlichem Schnitt) Munchen med II chnicht , 1912, 1, 2548 By Surg Gynec & Olst

The procedure for prostatectomy is as follows: Test of function of kidney with indigo-carmine injection For roidural anxisthesia, injection of 20 cc physiologic salt solution, with 4 to 5 drops of adrenalin into the sacral canal and injection of 20 ec of a 2 per cent novocain solution subcutaneously Introduction of Young's retractor Incision parallel to the lower os pubis and 11, to 2 cm from the symphysis Incision of fascia perine; superficitlis Blunt separation of the tissues The point where the retractor enters the prostate can easily be felt with the finger The capsule lying below the pros tate is then perforated with a dressing forcens which is opened to allow the entrance of a finger to loosen the gland as far as possible from its surroundings The retractor is then removed and, while the assistant presses upon the full bladder, the prostate is completely freed with the finger and extracted with a forceps. The results in the 31 cases thus operated upon are such that catheterization is needed in none and no fistula has remained the latter closing in from 14 to 20 days after operation All patients became continent and in no case was the sexual function disturbed

Technique of Transvesical Pros-Hartmann tatectomy (Technique de la prostatectomie transsésseale) Reports of Hartmann's Chines, 4th senes 1913 tot

Hartmann Immediate and Fnd Results of 118 Operations for Prostatic Hypertrophy (Resul tats immédiats et éloignés de 118 interventions opératives pour hypertroj hie prostatique) By Journal de Chirurgie

These two memoirs give the experience of Hart The operations mann in prostatic hypertrophy performed are as follows

1 Suprapubic cystostomy 6 cases These are not of recent date as Hartmann has more or less given up this operation since the advent of pros tatectoms Iwo patients died shortly after opera tion, owing to the continuance of the infectious symptoms. The others were cured operatively but did not live a long while afterwards One fixed ten years with a very good functional result The best procedures consist in making a narrow opening and in suturing the bladder mucosa to the skin, though this is not always fersible

2 Bottim operation Three patients were operated on ten years ago. In one patient it was nec-

essary to perform secondarily a prostatectomy
3 Perincal prostatectomy Four cases of nartial prostatectomy, with bad results, I death and 3 failures (persisting retention) Forty-three subtotal prostatectomies have given 8 deaths and 35 cures, in 2 cases death was due to secondary hamorthage, and in 1 to pulmonary complications Other accidents have been noticed orchitis (10 cases). rectoperment fistula (2 cases) Late results are known in 27 cases, 18 do not present any urinary disturbances o have either a slight cystitis or incomplete retention, none have incontinence

4 Transvesical prostatectomy Results of par tial operations are not much better than perincal

operations Light cases with 3 deaths, and among the recoveries only a are complete

For transvesical prostatectomy Hartmann follows the technique of letver. Chloroform anaesthesia is used and the bladder is distended with a concentrated solution of boric acid. The prostate is enucleated and then the margins of the vesical incision are sutured to the borders of the musculo aponeurotic wound thereby avoiding retraction of the bladder and urmary infiltration. This technical detail is important. Against harmorrhage he uses neither forcers ligatures tamponade not massage of the cavity left by the enucleation. The tube of Fryer or de Duchastelet is left in place for from four to seven days. It is removed as soon as the urine is clear, and a sound is placed in the urethra

Hartmann has performed 53 prostatectomies with this technique and has had 44 cures and 9 deaths a due to spinal anaethesia a to anuria a to pulmonary complications 2 to unnary infiltra tion a to pyonephritis. He has had reports from 20 patients 24 have perfect micturation and report being without the slightest urinary disturbance The end results of teams exact prostatectums are much better than those of perincal prostatectomy

CH LENORMENT

By Surg Gynec & Obst

MISCELLANEOUS Cabot The Present Standing of the Operation of I itholopaxy J Am M Ass 1912 hr 1954

Cabot believes that htholopaxy is the operation of choice in all uncomplicated cases of stone in the bladder. This operation has a mortality of from 1 6 to 6 per cent while in suprapubic lithotoms the percentage is from 10 to 20 per cent. The exstoscope gives the operator ample opportunity to inspect the interior of the bladder. The skill required in the use of the lithotrite is no greater than that needed in an ordinary cystoscopy. In prostatic obstruction with secondary stone the removal of the stone is merely an incident to the removal of the prostate Thus most of the cases of real difficulty in the do main of litholopaxy are removed and for the crushing operation are left the uncomplicated cases with practically no mortality L G DWAY

SURGERY OF THE EYE AND EAR

Wood: Some of the Accidents and Complications Attending or Shortly Following the Extraction of Senile Cataract. Himos M J 1912, xxii, 541 By Surg , Gynec & Obst

Most of the accidents and complications that area during and after cataracte extraction are the result not solely of defects in the manupulative skell of the surgeon, but are due quite as often to lack of control on the part of the patient. Other causes of trouble are undescribel local conditions, immating of the cataract, the septuc conditions of the eye or its appendages, or lack of the usual aspect percentile.

An aliosyncrasy against belliadonia in the form of atopin irritation, dermattitis and conjunctiva and tropin tribution, dermattitis and conjunctiva and roughness of the palpebral skin. It is never accompanied by pain, but generally is attended by some inching and coular disconfiort. It is commonly observed several days after the first institution of the drug, and may be associated with considerable hackening of the skin surface and a seromicous decharge from the eye. The my dratic about he of the country of the control of the country of the control of the country of the

It occasionally happens that, after the puncture of counter-puncture, the surgeon discovers that he has inserted his kinde upsale down. Knapp recommends that the kinde should be turned on its long axis so as to entirely reverse its position, and thus to continue the section but the author does not see how it is possible, with a Grafe kinde of average thickness, to accomplish this feat without considerable loss of vitreous and much damage to the correct Under these condutions it is better to withdraw the

knie and wait until the original wound has healed Melville Black uses the usual cataract knife with a blunt point, which is inserted into the original corneal dpening with the proper edge up and the

section completed

The author beheves that a restracted outlet for agastia and lenticular tissues spells a dangerous traumatism, indic herma, secondary cataract, post-operative inits, and other forms of a lingering convaisaemen. One should make a sufficient, even a generous, primary incisson, and it is better to make it too large than too small

It is better not to manipulate the lps of the wound too much in an elfort to expel blood from the antenor chamber. After making a conjunctival flap, the whole eye should be gently flooded with varm boric acid solution, and the blood in all its forms, cated out of the eye with "dash" of cotton or by the use of the anterior chamber syringe. A small quantity of blood in the anterior chamber soon

becomes absorbed and does little harm except to obscure, for the time, the intraocular field of operation

Care should be taken to use a very sharp or

needle-pointed cystotome

Wood highly recommends the concentrated, artificial, oblique illumination for the cataract operation as well as for every procedure that requires the distinct definition of minute details of the cornea and in the anterior chamber. He prefers

the Nernst light

Prolapse of the ins is due mostly to injury to the parts or any violence that may reopen the wound Sneezing, coughing, straining at stool, and counting are among these, as well as accidental blows on the dressings, finger thrusts, squeezing of the lids, sudden movement in or out of bed and undue pressure of the bandage, mask or shield, etc. Care should be exercised in removing the dress

Care should be exercised in removing the dress ings at the first few inspections of the eye following an extraction because the iris may be washed or pushed into the wound by the sudden outflow of aqueous induced by the opening of the lids and the consequent disturbance of the wound edges

Loss of vitreous most frequently attends or follows the delivery of the lens, although it may take place as soon as the opening in the eye ball is large enough for its evit It rarely occurs during the healing of the wound or after it has closed.

The most common immediate causes of vitreous loss are spasms of the orbiculars brought about by anything that makes the patient "squeeze up" the eye, too marked use of the fixation forceps, undue pressure on or dragging of the capsule forceps or cystotome, a prolonged or too rapid section, an unexpected upward rotation of the eye when an anstrument is in the anterior chamber and too much force temployed in an attempt to expel cortical matter or capsular remnants

Post-operative inits is probably always associated with irritation or inflammation of the rest of the uveal tract. It waries greatly in intensity, from the simple form due to mechanical irritation of the its from retained lens matter, to the most pronounced cases, in which direct infection is the evident source cases, in which direct infection is

of the inflammation

Post operative indocyclitis may generally be regarded as a more pronounced form of infection than that just described, and is, as a rule, followed by loss of useful vision Cases present, within 24 hours after the extraction, the symptoms of acute intits soon followed by marked evidence of an intra-ocular inflammation, i e, a blurred, swollen iris with exudates at its margina.

Now and then the eye becomes quiet, and some

form of iridotomy may eventually be instrumental in restoring a fair amount of sight.

The mental balance of old people is especially prone to be disturbed by putting them in a drik room of a strange hospital to say nothing of the anxiety connected with a serious operation

The majority of invine patients recover under sedatives and judicious moral sursion. In every case the condition of the bladder bowels, urine blood, etc. should receive attention

Suker: The Use of the Conjunctival Flap in Perforated Wounds of the Globe. Illinois If J 1912, 220, 550 By Surg , Gynec & Obst

The conjunctival flap is made as follows. At the site of injury, or in the most immediate area the conjunctive is dissected loose the requisite distance beyond the lateral edges of the wound. It is next dissected loose backwards as far as it is deemed necessary, depending on the size of the wound to be covered You either dissect the conjunctive half way around the cornerl circumference or less. If less then make a flap by two vertical incisions, one at either end of the imbal cut. The flan is now stretched over the lesion and fixed by sutures into the conjunctive on the opposite side sutures are necessary, in fact the flip is simply anchored as it were to the conjunctiva on the opposite side. The sutures pass through a fold of the conjunctiva. In this way either the whole or a portion of the cornea is covered. The sutures are removed within four or five days

By means of this flap a class of cases mooking the corne and disjoent is kite. Which heretofore mean either a permanenth intrable exe or an enucleation are no longer searcificed. I unfertiented a class of cases entailing utilier a total or partial loss of corneal substance. Seasure of inputs or disease which here tofore necessitated enucleation or one of its substantial to the same of the same of the same is true of extensive wounds of the select the same is true of extensive wounds of the select the same is true of extensive wounds of the select the same is true of extensive wounds of the select the same is true of extensive and the select the same is true of extensive and the select the same is true of extensive and the select the selec

Corneal fistulæ which at times prove vers obstinate yield readily to this conjunctival flap

This conjunctival thy is particularly applicable in dealing with scleral wounds it is as protection against infection 2 if furnishes the only merical by which uniform pressure is secured thereby insuring the exact juxtaposition of the sclera insurance and experimental and choroid. This latter is not archered when scleral situres are resort instruction a separation between choroid and sterr insertion a separation between choroid and sterr When large areas of scleral tissue are sacrificed it is not advisable to attempt the wound with catigut and then put the conjunctival flap on top of this, but it is better to depend on the latter alone which, under these

circumstances must be rather large and thick. I urthermore, any prolapse of vitreous or useal tract must be previously amoutated

The ever advanting and sloughing corneal ulers, whether of the serpiginous type, or not, offers a large field for the application of this flap. If the base of the ulerte be curetted the edges variefed and a flap brought over being well pressed into the ulerated areas results well mich mary-clous are the recompress—should the cornea perforate in these as it as a migossibility for the inst to prolapse, cases at its an impossibility for the inst to prolapse, cases at the control of the corner perforate in these than the control of the corner of

resorting to an optical indiction)
This filth is especially of great service in cases of genoribeal ophthalimits, with perfortations of the cornea and danger of its being lost because of the various prolapses of its contents. In such cases the various prolapses of its contents. In such cases the various prolapses of a contents. In such cases the placed that drainings is not allogether thwatted. If in these conductions the antenior chamber he filled with Illaab's isofolorm rods or simple isofolorm will be astiprosed at the satisfactory product; you will be astiprosed at the satisfactory.

Goldischer and kuhnt have even used this flap for the protection of the cornea in gonorrheal ophthalma after perforation has taken place and to prevent the extensive ingress of intraocular infection I myself have employed this flap in several cases of this kind

This conjunctival flap may at times be of service in combating gettensive central owner constitute Instead of causterining according to the Hechiga method, the agest is excised and the flap brought over. This is advised only for aggrarated cases which more support is offered to the cortex in this flat of the cortex in this service of the control of the cortex in the control of the cortex in the control of the cortex in the cortex in

Rarch if ever does this flap slough or ulcerate It is does then the assustice conditions underlying it are general rather than local. For as far as local lap under present ref. are concerned they can be controlled. Years it is advisable to have at last one or two blood events courting uninterrupt edily to the very ager of the flay. With the blood unitsward results are greatly members.

If the flap properly overlaps the involved area and if the edges of the flap are not allowed to roll up on themselves particularly so on the under surface, the operation will not be a failure. So also does the thickness of the flap play an important rôle, this

depends largely on circumstances and conditions to be achieved Usually a flap that is thin at its apex and gradually increasing in thickness toward the base is the desarable one. Then, too, the under surface of the flap must be free from harmorrhages or clots, and the part to which it is applied must likewise be in a similar condition. In other words, the exact principles as followed for skin grafting are to be observed. The flap must be at all times fairly well stretched to avoid any puckering or rolling up of the edges, and the eye must be so firmly bandaged at to insure practical immobility.

To briefly summarize, this flap is applicable in

- 1 Extensive wounds of the cornea and sclera, with or without loss of substance in either, or prolapse of ocular contents
 - 2 Corneal fistulæ
 - 3 Serpiginous or perforating corneal ulcers 4 Corneal or scleral staphyloma
 - 5 Prolapses of ocular contents
 - 6 Herma of the ms
 - 7. Extensive conical cornea
- 8 Untoward conditions in wounds following cataract extraction and the like
- 9 As a protection for the cornea in conditions similar to gonorrhead ophthalmia, in which extensive perforations and resulting intraocular infections are liable

Parsons: The Treatment of Unilateral Cataract. Lancet, 1912, clxxxiii, 1289 By Surg Gynec & Obst

Parsons discusses the advantages and disadvantages to the patient of having a unlateral cataract operated when the other eye has sufficient vision so that he can carry out his ordinary duties, and gives it as a general rule that the indication is to operate such cases in the young, but not to do so in the adult or aged

He believes in repeated needlings in the young, using every precaution to prevent excessive swelling of the lens matter, and the necessity of evacuating the contents of the anterior chamber, as his experince as a pathologist has taught him that the few cases of needling which go wrong do so as a result of curette evacuation.

The indications for operation on the aged are when the field of vision is of prime importance, or the appearance of the eye prevents the patient from earning a living, and, from a technical standpoint, the appearance of signs of hypermatunity

C G DARLING

Wolf. Septicæmia of Otic Origin

Edik 1912, Ixvi, Nov** By Surg** Gynec & Obst

Output

Description:

By Surg** Gynec & Obst

Wolf reports in detail 22 cases of septicemia of oilc origin from Kummel's practice. These 22 cases include 17 in which thrombophlebitis was present. In spite of this complication no death occurred, on the whole the prognosis was davorable. The treatment recommended consists chiefly in the dramage of the infected focus be this infection of

the middle ear, an extradural abscess or thrombophlebitis of either the lateral or the jugular sinus in these cases the author believes that ligation of the jugular vein is only allowable in such cases as show a lesion involving this vein M. C. Pricorrs

Crowe: An Aid for the Diagnosis of Conditions
Associated with an Obstruction to the Outflow of Blood from the Brain; with Special
Reference to Suns Thrombosis of Otitic
Origin. Bull Johns Hopkins Hosp, 1912, XXIII
BY Surg, Gynce & Obst

The author first describes the two main pathways by which the venous blood is returned from the brain by the symmetrically placed lateral sinuses, jugular bulbs and internal jugular veins, as well as the collateral circulation in case of obstruction to the outflow of blood through either of these main pathways, and he further illustrates this by a diagram showing the intracranial and extracranial venous systems and their anastomotic vessels. In the beginning he states that if there is sufficient obstruction to the outflow of blood through the intracranial system, these anastomotic vessels will become engarged with blood. At least two of these vessels, the supraorbital and ophthalmic veins, can be seen on the surface of the skin. The retinal veins are the only branches of the intracranial venous system which cannot be directly observed These vessels however, as he states, may be studied very conveniently with the aid of an electric ophthalmoscope

Stasis in the intracranial venous system, as may be produced by compressing both internal jugular veins, will immediately manifest itself by a dilatation of the veins of the fund: As the stasis increases the anastomotic vessels will also begin to dilate If the pressure on the right jugular vein is suddenly released but that on the left is still maintained, or vice versa, it will be observed that the distended veins in the fundi and in the skin immediately collapse and return to their normal size. This is to be explained by the fact that in normal individuals the connections between the two internal jugulars are so free that one side alone may be occluded without producing any marked evidence of stasis If it were otherwise, one would expect to find evidence of stasis in the eye grounds in every case of sinus thrombosis But such is not the case

The author's experience has led him to conclude that any acute obstruction to the outflow of blood through the sigmoid snus, jugular bulb, or internal jugular vein on one side may be diagnosed by means of his test. This test is based on purely mechanical principles.

From the examination of 50 normal individuals the author has arrived at the following conclusions

1 No appreciable evidence of stasis is seen in the retinal or supraorbital veins when one internal jugular is compressed with the finger

2 Pressure on both internal jugular veins at the same time produces a marked dilatation of the veins of the fundi and of the anastomotic vessels connecting the intracranial with the extracranial venous

circulation
3 When the pressure is suddenly released on one
side while it is maintained on the other, the engarged
veins of the anastomotic system and the fundit will

immediately empty
Crowe states that if the results in any individual
case differ markedly from those above, it must be
concluded that there is either an anomaly of the
intracranial venous circulation, or some pathological condition which is obstructing the outflow

of blood from the brain Among the clinical conditions which may be associated with an obstruction to the outflow of blood from the brain, the formation of a thrombus in the sigmoid sinus, secondary to an infection of the middle ear, is by far the most frequent and the most important Sinus thrombosis appears with equal frequency as a complication of acute and chronic cases of otitis media, and not infrequently the diagnosis offers great difficulty Because of the relative anatomical position of the jugular bulb to the middle ear it is possible to have a primary bulb thrombosis, with the sigmoid and transverse sinuses normal in appearance, and the condition may not be recognized even at an exploratory operation. One of the cardinal symptoms of sinus thrombosis is a remittent fever with chills, due to the serious nature of the malady however it is desirable to know at an early stage of the disease whether the symptoms are really due to a sinus thrombosis or to other conditions such as anging pneumonia malaria, the initial stage of one of the infectious diseases

of children, meningitis, or brain abscess As the author has already stated, no normal person has as yet been observed in whom the compression of one rugular alone produced any marked degree of stasis in the retinal veins. On the other hand in all normal individuals a quite evident dilatation of these vessels results when simultaneous pressure is made on both sides of the neck. Since a sinus thrombosis offers a more or less complete obstruction to the outflow of blood into the internal jugular vein on the same side it naturally follows that in such cases there will be unmistakable evidence of stasis as a result of compressing with the finger the internal jugular vein on the opposite side When it is possible to examine a patient before the onset of complications and find that both jugular veins are patent and at a later period, associated with an elevation of temperature, to find that the blood is not passing down one side of the neck as freely as down the other the author states that his observations have led him to believe that this sign may be taken as positive evidence that there is a sinus thrombosis GEO E BEILBY

Oppenheimer Pro and Con of Maintenance of the Retroauricular Opening after the Radical Mastold Operation Med Rec., 1917, 18331 975 By Surg Cynec & Obst

The main necessity for the maintenance of the posterior opening is in those instances of diffuse

cholesteatoma of the mastoid region where it is seemingly impossible at times to remove the prohierating epithelial masses in their entirety, since they are so intimately associated with the microscopic recesses in the osseous issue

The time when the posteror opening should be closed in such cases of cholesterosms where a so-called permanent opening has been maintained still depend entirely upon the condition of the epithelial imag of the eviscerated cavity, for should the least trace of the affection be in evidence, it will be apparent that to close the wound, whether it is of several months, or several years' duration, in the presence of the heaping up of epithelial masses, would endanger the entire result of the original operation. It is essential, therefore, in determining when such surgeal procedures should be adopted, may be a such surgeal procedures should be adopted, such whether osseous or otherwise, whould have custom the surface of the control of th

In a series of 83 radical operations, the posterior opening was maintained in 5 These cases recovered with an auditory canal larger than before the operation which permitted free inspection and treatment of every portion of the large osseous cavity. Because of the disafgurement cassed by a large opening cause of the disafgurement cassed by a large opening is consistent with the cressition of pathological changes within the osseous cavity.

months at least before such measure can be applied

change strain the exclusive savily should be under one that stron men unfifted using should be under one to be considered that there is not the slighter vedence of heaping up of epitheal masses in any of its parts, and that the slight exclusion that often takes place can be as easily removed from the enlarged meatus as it can from the post awneular opening

Kabatschnik: A New Test for Hearing (Eine neue Hörprüfungsmethode) Monatische f Ohrenk Laryn gol w Rhinol 1912 xlvi, 1413

By Surg Gynec & Obst Kabatschnik describes a new hearing test in which he uses the external auditory canal for bone con duction instead of the mastoid process purpose the external auditory meatus is closed with the finger or the tragus is pressed by the finger against the aural entrance and the handle of a tuning fork placed firmly upon the finger nail If a tuning fork is held near the open ear and removed the moment the sound ceases, then reapplied in the described manner upon the finger nail the sound of the fork will again be heard, although it has not been struck a second time. If the test is positive, we have to deal with an obstruction of the sound conduction, if negative, we have to deal with an affection of the sound-perception apparatus By this method bone conduction from the external auditory meatus of the diseased side into the sound ear is hardly possible, and should be a good method of exposing patients

SURGERY OF THE NOSE, THROAT, AND MOUTH

Peugalez and Labouré Nasopharynged Fibromata Treated by Paralateral Nasal Rhinotomy (Fibromes nasopharyngens Trautement par la thmotomie paralatéro-nasale) Arch internat d Laryngol, 1921, xxxx, 571 By Journal de Chrurgie

Nasal fibromata at times originate from the fibrous tissue situated between the nasal and odontoid processes, often from the ethmoid, sphe These noid, and ptergoid processes and the vomer tumors are of nasal origin The examination of the nose and rhinopharynx must be conducted with great gentleness, thereby minimizing the danger of possible hamorrhage I irst the anterior narcs are mopped with adrenalin solution and then examined with the rhinoscope. This is followed by posterior rhinoscopy and, finally a digital examination. If the tumor be well pediculated and can be seized with a loop or spread out upon the rhinopharynx and disimplanted by the Doyen or Escat method at can be removed by the natural

passages The artificial routes of extirpation are three in number the palatine the anterior nasal, and the lateronasal The lateronasal route (Moure et Sebileau) is the method of choice. It includes the following steps first, an incision extending in the nasolabial groove from the internal angle of the eye to the middle of the superior lip periosteotome the edges of the wound are separated from the underlying tissues. The masal notch is resected from the nasal process of the superior maxillary bone and from the nasal bone The nasal fossa is opened after incision of the mucosa is cramped for space the turbinated bones can be resected, also the internal wall of the maxillary sinus The tumor is extirpated The fibroms is seized with forceps, and the operator twists and pulls Hæmorrhage is controlled by compression or by

Peugmez and Laboure state that the operation by Moure is the operation of choice for malignant tumors of the nasal fossa, but for tumors of the nasal fossa, but for tumors of the nasal pharynx, the Faure operation Taure is contented with resecting the lower lateral portion of the nasal notth, removing the internal wall of the sinus and in necessary a part of the posterior control of the

the thermo cautery

is necessity a part of the posterior portion of the nasal septum G LAUREAS

Haskin The Relief of Nasal Obstruction by

Orthodontia: a Pica for Early Recognition and Correction of Faulty Maxillary Development Laryngoscope, 1912, xxii 1327

By Surg., Gynec & Obst

The author urges that physicians watch for mouth breathing in all children from birth. The loss of the moulding effect of the tongue and facial muscles is a great one and hard to restore. As a result, the devel

opment of the whole face suffers He calls special attention to orthodontic measures in removing the cause of mouth breathing If, after the removal of adenoids, the patient remains a mouth breather, the nasal space is too small. The nasal septum in these cases is found to be bowed. The usual operation has been the straightening of the septum and removal of a part of the turbinate body. The author recommends rapid spreading of the suture of the upper maxilla. It should be done early, even before the cruption of the permanent incisors, which usually occurs between the seventh and eighth Besides giving greater nasal space, it prevents the impaction of the permanent teeth and better occlusion results. The arch is expanded anteriorly and laterally, making use of the deciduous The mechanism resulting from rapid spreading of the maxilla is as follows The nasal septum straightens, at least in young children due to the actual separation of the suture which allows the resiliency of the septum to force itself down into the space thus made. The lengthening of the suture allows room for the vomer to extend forward to its full length as planned for that particular skull, thus overcoming the anteroposterior vertical bowing that is observed in so many cases

When the straightening does take place the septurn which is thus forced into the fissure created by the separation, helps to fill in the space and to maintain the expansion There is no tilting of the arch or the teeth themselves, as the pressure is so applied as to move the arch en masse separation there is little change in the direction of the divided surfaces Accompanying X-ray photographs clearly illustrate the separation of the Whether there is actual lowering of the arch is a mooted question. There may be no actual lowering at the time of separation, but the normal development of the whole face as a result of the restoration of nasal breathing and the freeing of dental impactions especially if done early in life, will eventually bring about an actual lowering of the roof because of the downward growth of the whole face The internasal space is widened from 3 to 6 mm The author presents a theory as to one other causal factor in nasal obstruction. The vomer as planned for the skull, in growing downward and forward, tries to grow to its full length, but the anterior position has to articulate with a much shorter line than intended by nature, and in pushing itself forward becomes bowed vertically lengthening of the arch by rapid spreading gives room for the vomer to lengthen and straighten out the vertical bowing Dentists have noted marked improvement in the general health of patients after rapid spreading, but have not accounted for it on

the basis of greater nasal space. If adenoids are present, these should also be removed as is usual. The author reports six cases which have been watched by him for a number of years.

E. Cospett.

Glogau Nasal Deformity Corrected by Autoimplantation of the Septal Cartliage. h Y M

J . 1912, xcvi, 955 By Surg , Gynec & Obst In a case of traumatic saddle nose and nasa! obstruction due to fracture of the sentum the external deformity was corrected by implanting a part of the cartilage removed intrapasally while performing a submucous resection of the septum The cartilage was covered by its perichondrium, from which by means of a Bier's skin grafting knife. the superficial epithelial layers were removed Through a small transverse incision the subcutane ous tissue of the deformity was separated along the dorsum of the nose down to the tip A sharp spoon was then introduced into this pocket and the cartilinge at the tip of the nose curetted, the cartilage. covered by its perichondrium, was then inserted and the incision closed. The inserted cartilage be came permanently attached and the external deformity was corrected By the submucous resection, masal breathing was restored to normal operation was performed under local anaesthesia The author's method is described in detail

Wildenberg Two Cases of Latyngo-Pharyngeal Esophagectomy (Deux cas de laryngo-pharyngoésophagectomie) Ann d Soc d Méd d Invers, 1012, [xxv. 11] By Journal de Chirutge

1012, IXIV, 133 By Journal de Chirurgie The author presents two male patients operated upon - one recently the other two years ago for laryngo pharyngo ersophageal cancer, by a method which he had devised and which is executed in the following way The operation is practiced under chloroform anæsthesia and in one step Median cutaneous incision extending from the hyord bone to the superior sternal notch. Then a double transverse incision extending from one sterno cleido maximal to the other at the lower level of the median incision Removal on the right side of a glandular mass extending into the phary ago maxillary fossa. The tumor was intimately ad berent above to the external carotid and the jugular vein below to the tenth nerve. It was dishcult to avoid injuring the contiguous organs. After mobilization of the larvnx and the pharvnx and exposure of the lower limit of the tumor involving the exophagus as far as the posterior mediastinum a compress was placed in the mediastinum thyrohyoid membrane was incised. The pharynx was divided 2 cm above the tumor The larynx and pharynx were detached from the vertebral column and the resophagus isolated from the tra-The tracher was divided at the level of the second tracherl ring and fixed to the skin by means of sutures forming a tracheal stoma The resoph agus was divided and sutured to the skin for some distance so as to form an ecsophageal stoma

above the trachea The day after the operation the patient exceed to cough, felt comfortable, and was hungy. He was cally the aid of an easo phageal bouge. Fifteen day the aid of an easo phageal bouge. Fifteen day the company of the was fed by Glück's funnet tuber. This method does not differ from natural feeding. The patient can musticate, taste, mealwate and wouldow his food as in the normal state.

One should wait six months before creating a new pharynx and ocsonhagus. This period is essential to allow the skin to recover its vitality and to detect recurrence. A recurrence renders uscless attempts at reconstruction of the pharinx, illustrations accompany the article The pharynx will have as a posterior wall skin placed upon the vertebral column. The pharvnx and ersonhagus The patient can dispense with will be cutaneous his tracheal cannula. With a collar the infirmity can be concealed As to speech, if the patients are young they can with sufficient application succeed in securing intelligent speech with a voice which at times resembles the natural voice. One nationt a man 71 years old operated upon two years ago, is well and shows no signs of recurrence

Hofmann. Transverse Superhyold Pharyngotomy. Beile i klin Chie 1912 Ixxn, Nov By Surg, Gynec & Obst

This operation, which has been but little used, was first performed by Von Hacker in 1001 for the removal of a sarcoma at the base of the tongue Holmann reports 2 cases in which he was enabled by this means to remove a tumor of the nasopharynx The first case was that of a young man of 17 years in whom nasal respiration was completely suppressed by a malignant tumor of the nasopharynx. Pharyngeal palpation showed that the tumor filled the vault of the pharvnx Hofmann made an incision 12 cm long parallel to and a finger's breadth above the hyoid bone. He then cut through the myohyoid geniohyoid and genioglossal muscles removed the submaxillary glands which were enlarged, and pushed aside the hypoglossal He was thus able to enter the pharynx without producing hamorrhage into the interior Anarsthesia was now continued by a laryngeal cannula With deep retractors excellent access was thus obtained to the nasopharynx Unfortunately, the tumor was too far advanced to allow complete removal. The pharyngotomy incision was closed with draininge only at the two ends. The wound Death followed two months healed perfectly later, as the result of local recurrence

In the second case in a boy of 12 years a large, double lobed fumor completely filled the audit of the phrayna. The same operation as that described above gave very good access to the tumor which was removed while in plan sees. It amost an armount of the properties wound followed. Complete closure of the operative wound followed.

Hofmann concludes that this operation gives an excellent exposure, not only of the base of the tongue and thelary nx, but also of the nasophary ngeal vault

M. C. Pincorrs

Gault: Four Cases of Pharyngeal Tumors Removed by the Buccai Route (Quatre cas de tumeurs du pharyns opérées par la voie buccale)

Arch indem d Laryn, d Olol e d Rhinol, 1912,

xxii, No 2 By Journal de Chrurgie

The first patient, 58 years old had a non mobile cherry sized tumor. It was not definitely limited It seemed to form part of the posterior surface of the soft palate. No enlarged 1 ymphatic glands Total removal of the left half of the soft palate Suture of the selum palate to opposite posterior pallar. Two years after no recurrence. No histo-

logic examination

The second patient, 73 years old, had a vegetating ulcer having the appearance of an epithchoma and occupying the margin and posterior part of the soft patient with the patient patient of the soft imphatic glands. Total excision of the right half of the soft patie and of the anterior fascial pillar. Two years after no recurrence. No histologic examplation.

The third patient 33 years old had a whitish hard wahut sized tumor occupying the entire right tonsillar fossa. Histological examination showed lymphoastrooma. Yo enlarged lymphatic glands retricial incision upon the anterior pillar. Enuclea tion with sessors. Four months after, recurrence, new excision, 18 months after, no recurrence.

The fourth patient so years old, had a tumor of the right lateral pharyngeal wall involving the pillars soft palate, tonsil and base of the tongue. The tumor was mobile there were no enlarged lymphatic glands. Abliation by the buccal route of all the involved region has been been considered examination.

Tousey X-ray Measurement of the Permanent Teeth Before Lruption to Provide for Early Regulation of the Dental Arch. Laryngoscope, 1912 xx1, 1300 By Surg Gynec & Obst

In making such an examination the actual width of the temporary incisors is measured with a caliper square graduated in hundredths of an inch. A war impression is made showing the curve formed by the cutting edge of the incisors the cusp of the canne, and the buccal cusps of the molars. Radjo-graphs are made from which the width of the unerprited enertial incisors is measured.

The curve that should be formed by permanent tetth of that size is calculated by an established mathematical formula and is drawn in its actual size for the guidance of the orthodonists. Measurements of various cases extending over seven years of various cases, extending over seven years better than the constant of the permanent teeth, and the fact that the temporary teeth form a beautiful arch is no evidence that this is the right curve for the

2 Unaided nature reproduces permanent teeth in the permanent arch the curve formed by the temporary teeth, whether right or wrong the curve is too small for the permanent teeth, the latter are delayed in eruption or their eruption is entirely prevented They come through in bad position, causing disfigurement, neuralgic pain, and a variety of nervous symptoms, together with all the had effects of too parrow and hence too vaulted an arch, crumpling up the pasal septum into deviations and spurs. These last conditions occlude the nasal passages, and produce mouth breathing and adenoid and tonsillar disease 4 These X ray measurements made of the permanent teeth at the age of s or 6 years have in the cases of seven children been compared with the actual measurements five or six years later and found to be exact within 164 inch 5 Regulation of the temporary teeth to the proper curvature is an easy matter for the orthodontist. and is not painful for the child

Ketchem Treatment by the Orthodontlst Supplementing that by the Rhinologist. Laryngoscope, 1912, xxii, 1286 By Surg, Gynec & Obst

The essaysis, after explaining the effect of adenoid tissue and consequent mouth breathing upon the growth of the manifalry bones, the mandible, and the movived muscles, says "The evidence which is forced upon the orthodonist is that while the adenoid operation is quite necessary, it alone is not often a cure for mouth breathing, except in youign short time and has not caused malformation of the bones and abnormal development of the muscles involved."

He divides the cases of persistent mouth breathing, after adenoid operations, into two classes First, those in which there is ample nasal space after the removal of adenoids but in which the protrusion of the upper anterior teeth and the retrusion of the lower teeth make it impossible for the patient to close the lips By placing the teeth in normal occlusion the orthodontist makes possible the closure of the lips Second, those cases in which there has been an arrest of development of the maxillary bones with a narrow dental arch, narrow nose cavity, deflected septum, etc. Through gentle pressure applied to the teeth in such a way as to transmit the stimulation to the maxillary bones, the maxillary dental arch may be widened to normal size and the involved bones stimulated in development so that the nose cavity may increase in size Deflected septums often straighten, normal breathing is often the result The essayist used for illustration such a case in which the nose cavity developed from about one half normal size to three fourths normal, in nine months' time, the deflected septum became nearly straight years after orthodontic treatment examination showed the nose cavity to be fully normal and the septum straight

The essayist also says "The orthodontist cannot

hope for permanent success in a case where mouth breathing has caused malocclusion of the teeth unless the rhinologist remove the primary cause of the mouth breathing

"To be of the greatest benefit to humanity, the rhinologist and orthodontist must work together, for the work of one often supplements that of the other"

Brown: The Speech Relation of Cleft Palate Operation. J Am M Ass, 1912, h 1440 By Surg Gynec & Obst

The surgical closure of cleft palate cannot be expected to overcome speech defects the underlying cause of which is some factor other than those which concern the psychologic action of the parts influenced by the anatomical defects

In the correction of speech defects by post preparity speech training, the improvement will be accelerated in proportion as the result of our surgicular operations in both uranoplasts; and staphs forshaphy more nearly approximate the normal in the reproduction of bone and soft issue in the patcal region. With this end in view this author conducted a series of experience Patching the surface of the property of t

The palates of a series of pups two months old were compressed and fixed in this position with wires passed above the palate and clamped upon each side of the upper jaw, after the form of opera tion recommended for young infants by Garretson and Brophy Sections through the heads of nups at approximately six months old showed almost complete nasal stenosis, deflected nasal septum, ereatly enlarged maxillary sinuses, marked disar rangement in the occlusion of the teeth developed a high degree of susceptibility to infec tion and were more or less affected by nasal or pneumonic disease. Nervous and trophic changes seemed to be so interfered with that they were only half as large as the control pup of the same age This was exactly in accordance with the deformed mouths, noses and faces that may be seen in children and young persons who have the palates closed in early inlancy by direct compression according to this method. The best results in health speech, and personal appearance are impossible for individuals so treated

Tassites were cut in the palates of pups, and these were closed according to the following methods. In some, flaps were inverted by making incisions along the alterolar border on one side, raising the mucopernosteal border from the external border toward the center reversing it shings the border under a mucopernosteal flap raised by separation along the border of the fusione on the opposite side and sutured in this position to follow the methods of Lane and Ferguson. In others the fusioners were

closed by freeing the anterior end of a mucoperiosteal flan with a broad posterior pedicle, reversing and suturing it under a flap similarly raised upon the opposite side, which was left with the mucous mem brane in its normal position and sutured as in the Davies-Colley operation There was no evidence whatever of bone reconstruction in any of these It therefore seems reasonable to conclude that this type of operation is objectionable, because through the disturbance of the natural anatomical arrangement of the tissues occasioned by turning the periosteum upside down, bone growth does not take place as it might if the periosteal surfaces were merely moved across and brought together in their natural position The thickened fibrous tissue which forms across the fissure cannot have the firm resounding properties of a bony palate, nor will it have the fixed resistance to the attachments of the muscles which is necessary for proper speech function

The polates of pups closed by a modification of the well known Van Langenbeck operation—with the mucoperoisteum raised from the border of the issure missions in line with the treth upon each side flaps raised and sutured in the certife by shding them across the oune surface without altering the them across the toune surface without altering the contract of the con

Clinical experience and the skiagraphs of the mouths of patients whose fissures he had closed in the region of the hard palate several years previously indicate that bone does form in this region when the pilate itsues are treated in this way.

The conclusions based upon the results thus far accomplished in these experiments are summarized as follows

1 The application of compressive force, subjected to cause transmitte injury or disarrangement of the developing teeth or surrounding jaw structures or the application of clamps of any kind which may inhibit growth across the pislate in infant hareling and delet pislate cases is unnecessity even in the fall to do permanent harm to the future development of the noise patiet, retteh jaws face and pharyna, and thus mittate against the acquirement of correct speech.

2 Lapedients such as the entrying in of external tissue from the lip or skin, or the turning upside down of the microperconsteum for the purpose of bridging the prilate fassure, are not tenjured, because the same results can be accomplished otherwise in the same results can be accomplished otherwise in committee of the loss of bone development renders the best speech results impossible. 3 Notenthanding such unavoidable disadding the contraction which is the contraction of the cont

vantages and difficulties as may be encountered, the effort from first to last in the treatment of all cases of harelip and cleft palate should be to restore the parts in such manner that in every possible way the normal growth and development may be favored

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Editorial communications should be sent to Franklin H. Martin, Editor, 31 N. State Street, Chicago.
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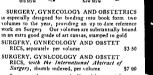


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The INTERNATIONAL ABSTRACT OF SURGERY IS NOT an experiment—
its success was assured from the beginning as evidenced by the volume
of orders for the new publication received from subscribers to SURGERY,
GYNEGOLOGY AND OBSTETRICS following the publication of the irist number in February The need of such a work is everywhere admitted,
and we confidently expect that every one of the present subscribers to
SURGERY GYNECOLOGY AND OBSTETRICS will want the supplementary
publication

This is the first serious attempt to publish in English a complete. comprehensive and authoritative review and index of the surgical literature of the world. A careful examination of the first three numbers and a consideration of the plans for and the scope of the new publication will demonstrate that we have at our command the necessary facilities for accomplishing this important task. These plans include reciprocal agreements between SURGERY GYNECOLOGY AND OBSTETRICS and the three leading abstract journals of Europe, viz Journal de Chirurgie Zentralblatt fur die gesamte Chirurgie und ihre Grenzgebiete and Zentralblatt fur die gesamte Gynakologie und Geburtshilfe sowie deren Grenzgebiete From these three journals the International Abstract of Surgery is to receive abstracts and indexes of the surgical literature appearing in journals published in foreign languages, while a representative editorial staff for America and the British Empire supplementing the present staff of SURGERY, GYNECOLOGY AND OBSTETRICS, has been organized to abstract and index articles appearing in the American and English publications and to translate and edit the material furnished by our foreign contemporaries Such a plan provides a journal which, for comprehensive ness, accuracy and authoritativeness, must be superior to any journal that might be brought forth by one editorial staff attempting to cover all coun tries and languages

INTERNATIONAL ABSTRACT OF SURGERY

APRIL, 1913

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE

Trout. Proctoclysis Experimental Study Trans
South Surg & Gynec Ass Dec 1912
By Surg Gynec & Obst

In February, 1912. Trout had presented a prelumnary report of a comparative study of saline solution and tap water for proctoclysis in nearly tooo cases. The present report which he presented before the December meeting was based on over 2000 cases and included all types of operations, as well as replies received from 232 hospitals with the following deductions.

(1) There is no uniformity in preparing saline solutions in the various hospitals, (2) a soft rubber catheter is employed instead of a hard nozzle, and very seldom does the patient realize anything is in the rectum, (3) all sodium salts are toxic, and quite frequently dangerous doses are being given by the rectum, (4) tap water does not erretate the rectum, and patients will absorb one third more than they will of salt solution, (s) it requires twice as much water by mouth to relieve thirst when patients are taking salt solution by rectum, (6) salt solution does not seem to have any effect on the renal functional test of phenolsulphophthalem, (7) 27 cases have tasted salt without knowing the character of the solution they were taking by rectum, (8) 58 cases have been operated on at other hospitals, and all have commented on the absence of thirst and decrease in nausea in comparison with previous operations, (9) 287 operations on the perineum and rectum in which proctoclysis could not be employed have been in the hospital during this period, and all showed a marked increase in thirst and nausea in comparison with other cases, (10) 4 cases of death are reported in the literature from the use of salt solution, (11) the giving of fluid by rectum meets nature's demands for the relief of post operative thirst in a simple, effective and harmless manner

The following experiences and opinions were given in discussing Trout's paper

Jonas had been changing from saline solution in the rectum to plain water proctocysis, and although he could not give the exact statistics he could confirm the very favorable report of the essayist Patients had been much more comfortable Edema of the legs had been observed less frequently

McRae knew of a case in which a stronger salt solution was used instead of the usual dilute salt solution, and death supervened twelve hours later It was a simple appendectiony where the nurse used a pint of the stronger solution.

Parham had for some time been using very much scaker solution, namely or per cent solution, in place of the ordinary normal salt solution, but had not done it as systematically as the essayist, who had brought out clearly the advantages of using sater in place of salt solution in most of these cases

Milne, of London, said it would be interesting to know the temperature of the tap natter in the receptacle. At the London Hospital they gave said solution as a routine for years, and in the receptacle the temperature of it was 10.5, until some one found that when the saine solution came out of the end of the catheter its temperature was only about 60°, that is, in running through a rubber tube three of four feet long the saines solution drops about 15° or 20° degrees in temperature. Since then they usually kept it in a thermo flask at the foot of the bed at a temperature of 100°.

Elbrecht was of the opinion that if one would take a tube six feet long, which was about the average length of the tube which would be used for protocolysis work, he would find there was a drop of 40° in temperature in the six feet of rubber tubing, with the water running at the rate of 60 drops per minute. This he simply used as a standard to sugge how much sait solution would run in m an

Carr had always been rather afraid of salt solution, especially used intravenously and subcutaneously, he did not think he had given it intravenously in half a-dozen cases, and he seldom used it under the skin. He was glad to hear of such gratifying results from the use of plain tap water.

In conclusion, Trout said he had been able, except na few cases, to get nine quarts of salt solution in the rectum. He had found drainage cases absorbed more than any other class of cases. He used 3500 to 4000 cc in water cases and from 4300 to 4000 cc in water cases and from 4300 or 4000 cc. In salt solution. He gave it every two or three hours by catheter,—would let it run in and then take out the catheter. E. S. Talsor, JR.

ASEPTIC AND ANTISEPTIC SURGERY

Hoffmann: The Rapid Disinfection of the Mucosa at Operations During Which the Gastro-intestinal Tract is Opened (Zur Schnellidssniestion der Schleimhaut bei Operationen mit Froffung des Magendarmtractus) Beit z kin Chir 1917, ktx., No 1 By Sure, Gynec & Obst.

There is always more or less danger of infecting the pertinenal carty in those cases where it becomes necessary to open into the lumen of the stomach obowd. The attempt to render the gastro instainal canal aseptice by the administration of intestinal canal aseptic by the administration of intestinal canal aseptic by the administration of intestinal canal inseptic has prove na nutter faither and has been administed to the same of the control of the cont

Encouraged by his success with thymol alcohol in disinfection of the skin Hoffmann determined to try the effects of this powerful germicide on mucous membranes Experiments were made on dogs by onening the intestine and making cultures from the mucosa Then the mucous membrane was treated for one minute by applying a pledget of gauze saturated with a 5 per cent solution of thy mol in alcohol Cultures were then taken from the mucous membrane, immediately and for fifteen minutes afterward and all remained sterile The mucous membrane was then excised and subjected to a histological examination, which revealed no change whatever in the tissues Then in order to deter mine whether a longer application of the solution would be detrimental to the mucous membrane the application was continued for from five to fifteen minutes In these cases necrosis of the mem brane followed showing that an application lasting longer than one or two minutes was not safe

Hoffmann concludes as the result of his experiments, that spee cent hymodischol when applied to mucous membranes for one munute is a safe and efficient disaffectant. He cattions seanut allowing the solution to come in contact with the personeum This solution is applicable not alone in miestinal work, but has been found to be a very efficient disaffectant of the vagina.

WILLIAM HESSERT

ANÆSTRETICS

Eisenbrey: Observations on the Use of Intratracheal Ancesthesia in Experimental Work, with a Description of a Simple and Inexpensive Apparatus. Surg. Gyuce & Obit, 1017 Ny. 715 By Surg. Gynce & Obst

The writer gives a detailed description of an apprartus of his own design for intratracheal arises thesis which combines simplicity, smill cost, and case of construction, and the essential features of which are a constant air supply, a means of diverting by the use of the rocker valve principle all or any portion of the air through an either container and a portion of the air through an either container and a their time traches.

Several practical points in intratracheal insufflation and in the use of this apparatus are ably Warming the air is thought to be of advantage in aiding saporization of the ether. although the air loses its heat as it passes through the delivery tube to the tracheal catheter danger of overangesthetization if the air is allowed to bubble through the ether is pointed out, together with the efficiency of the artificial respiration provided by reversing the lever. The recession of the ether by evaporation thus decreasing the amount of anasthetic the nation; receives while still supply ing his lessening needs as the duration of the anes thesia lengthens is remarked upon. The question of the percentage of ether given is disposed of and the technique of the introduction of the catheter is

orecribes and pressure the apparatus should be operated to should be found it is shown that the pressure to which the lungs are subjected cannot be judged by the mercury manometer as it is dependent on the amount of space between the catheter and the tracket The choice of the proper sized catheter with which to distend the lungs to the proper degree is difficult but a small one is best as the outflow can always be fessered by digital compression of the children of the companion of the contribution of the contribution of the companion of the contribution of the con

Finally, it was found that raising the intratraction pressure to 8 or to mir resulted in a condition of appear or pseudapinea which in the author's opinion was not an acapinea due to CO₂ estabustion because its appearance was simultaneous with the rise of intratraction pressure and not the result of a previous overventilation. It is accompanied by full disternation of the lungs, which interferes with access the contraction of the previous overventilation. It is accompanied by full disternation of the lungs, which interferes with access of from no to ao mm. This phase of the question will be dealy within an later paper E. K. vasarior E. K. vasarior E. K. vasarior et al. (2014).

Collier Improved Technique of Ether Vapor and Nitrous Oxide-Orygen Anæsthesias J. M.

Ass G2 1912 is Dec By Surg Gynec & Obst The author goes into detail in describing the apparatus he uses in both the ether vapor and in trous oxide-oxygen anaesthesias Special attention

is called to the warming device of each

In the ether vapor apparatus the air, mixed with ether or chloroform, or both in varying proportions by a regulating index plate, is forced to the patient through the warming chamber by a compression bulb or foot pump just in advance of each inhalation This gives a regular narcosis with a minimum amount of the anæsthetic, producing less nausea and kidney and liver derangements, and causing little or none of the respiratory irritations frequently seen in the ordinary methods now in use

The author finds the warming chamber in con nection with his nitrous oxide oxygen apparatus oute an advantage, as the warmed gases are much more readily taken up by the blood than cold and are less chilling to the mucous membranes of the respiratory tract. In all septic and toxic cases where the patient needs all his phagocytes, the author knows of no other anæsthetic that equals or even approaches nitrous oxide-oxygen His experience has shown such a marked difference in the immediate and remote after effects on the patient that, to his mind, gas-oxygen is the anæsthetic of choice in all such cases Patients begin to improve immediately, provided, of course, they are not

already surcharged with toxins

The average length of the author's ros true nitrous oxide-oxygen anarsthesias to date was 37 1/2 minutes In 17 other cases, with an average dura tion of one hour and fifteen minutes he found it necessary to supplement the gas-oxygen with ether in order to get complete muscular relaxation only requiring however, an average of 71/2 dr of ether for each case, showing profound anæsthesia of ten minutes for each dram of ether so employed. He urges the more general use of the nitrous oxide anasthesia, especially in all cases of septic and toxic nature

Ambard and De Martel Prolonged Anæsthesia with Nitrous Oxide (Anesthésie prolongée par le protoxyde d azote) Compt rend Soc de Biol Par . 1012, XXIII 652 By Journal de Chirurgie

To obtain an anaesthesia of long duration it is necessary to add oxygen to the nitrous oxide be cause the latter will not assure hæmatosis As the mixture of oxygen and nitrous oxide produces little anæsthesia, some asphyxia is necessarily used (2 to 3 per cent only of oxygen up to 9 to 10 per cent) Two other methods may be used which prevent bordering too greatly on asphyxia One the method of P Bert, consists of the administration of the anæsthetizing mixture in a chamber under pressure The other, inaugurated by Neu in 1901 consists in preceding the anæsthetic by an injection of scopolamin

The authors report ten anæsthesias under pres sure and five under scopolamin with nitrous oxide and air These anæsthetics under pressure were given from an apparatus by M Gauthier with a pressure of 30 to 40 cm of mercury and a gaseous mixture of seven parts nitrous oxide and one part oxygen The average duration of anæsthesia was about half an hour, although two of them were almost an hour

Anaesthesia by nitrous oxide under pressure is rapid and without the period of excitation. Awakening is rapid and without malaise or vomiting. This is the ideal anæsthetic for the patient as well as for the operator. It will be of great service to those nationts who take chloroform poorly

In their five anæsthesias by Neu's method the authors injected 1 mg of scopolamin and 1 cg of morphin half an hour before the anæsthetic. They put the patient to sleep with 10 parts nitrous oxide and a part oxygen Sleep was profound, asphyxia was light, and the awakening prompt (s to 6 minutes), but the patients were apathetic for seven hours Once they observed vomiting

The authors think the method of Bert is of the first order from the point of view of harmlessness, its relative complexity being the only objection

PIERRE CRIPT

Rood Regional Angesthesia, Brit M J. 2012, 11. By Surg , Gynec & Obst

Regional anæsthesia can be used for any type of operation upon any part of the body supplied by nerves which are at some part of their course anatomically accessible. By anatomically accessible is meant such a position of the nerve that it is possible to pass a fine needle down to it, and so introduce a strong solution of the analysis fluid The musculo spiral nerve in the arm and the median nerve at the wrist are both cases in point characteristics of this form of anæsthesia are

r Granted that a suitable anæsthetic solution is introduced around the trunk of a nerve, the whole area supplied by that nerve becomes anasthetic bone muscle fascia skin etc

The method can be used for operations upon inflamed tissues provided the injection around the nerve trunk be made at some point well above the

sentic area 3 The anatomical relations of the part to be operated upon are not obscured by ordema caused by a large quantity of injected fluid, as is sometimes the case with the wide infiltration method

4 The anæsthesia lasts for several hours The anæsthetic area is clearly defined by the

anatomical distribution of the nerves Consequently there is no risk of suddenly overstepping the limits of the anæsthesia with most unpleasant results to the patient

A very important factor in the success of this form of anasthesia is the solution used Either eucain stovain, or novocain may be employed, but the author reports the best results from novocain A 21/2 per cent solution of novocain in distilled water is prepared and sufficient sodium chloride is added to make the fluid isotonic with the blood. The whole is then sterilized by boiling which can be done without detriment to the novocain, it is, of course, absolutely necessary that this fluid should be sterile. and for this reason it should be freshly prepared for each case shortly before using The formula of the solution is Novocain, 2gr, sodium chloride, 0 5gr, distilled water, 100 cc. Five drops of a 1 10,000 solution of adrenalin are added to each 20 cc. of solution immediately before use

The author reports 254 cases in which this method was employed 150 operations on the hand 17 on the wrist and forearm, 1 on the arm 43 on the thorax 6 in the abdomen and 37 on the foot. In only 7 of these was general anesthesia needed to complete the operation. On the whole the airws thesia was very satisfactory. Two things determine the sucress—anatomy and non-ocau.

M S HENDERSON

SURGICAL INSTRUMENTS AND APPARATUS Dams. A New Apparatus for Pressure in Narcosis

(A propos du principe de Brauer Un nouvel appateil à barooarcove) Ann d l Soc belge d'Chir 1932 xii 494 By Journal de Chirurgie The principle of the apparatus for hyperpressure

The principle of the apparatus for hyperpressure in surgery of the thorax seems unanimously admitted to be substantial. However, the apparatus used is not popular, and the author believes this to be due

to the fact that it is too cumbersome and bulks He therefore constructed a compact and practical instrument which could be used without question and without preliminary experience. The principal difficulty in the pressure narcosis apparatus is the necessity of introducing the anæsthetic beforehand into a medium of compressed air. In order to introduce the liquid into a closed tube of compressed eas without letting the latter escape, the author em ployed an asbestos wick which traversed the wall of the tube and which absorbed the volatile liquid as it was needed. This apparatus is based upon the principle of capillary attraction. Its weight does not exceed 155 gm and its dimensions are small enough to permit its introduction into an ordinary instrument case The technique for the use of the new instrument is very simple

The mouthpiece is an elliptical plate of this elastic metal curved to conform to the shape of a dental arch. It is designed to be placed within the lips between them and the teeth and contains a rectangular tube in which the tambour shiels without a great amount of friction. The tambour is a small out metallic cylinder divided into two chambers by a sectium parallel to its bases.

SURGERY OF THE HEAD AND NECK

HEAD

Davis: A Cheek Defect and Its Repair by Plastic Operation Trans South Surg & Gynec Ass, Dec 1912 By Surg Gynec & Obst

The following case was reported by Davis Male. aged 16 Defect 6 3 cc in diameter involving the whole thickness of the right cheek Probably caused by cancrum oris which occurred as a typhoid complication two years previously The surround ing soft parts were infiltrated with scar tissue. The tongue was adherent to the lower border of the defect, and there was mability to open the jaws To close this defect a flap was necessary which should fulfill several conditions. It should have enough thickness to fill the defect without causing a de pressed scar after healing was complete. It should be formed of tissue which would conform in appear ance to the surrounding skin externally, and take the place of the mucous membrane of the mouth A rectangular flap 7 5 x 16 cm of whole thickness of skin and subcutaneous fat was raised from the right arm. The pedicle was in the mid deltoid region The flap was folded on itself, and the distal end sutured to the pedicle and underlying muscle thus bringing raw surface to raw surface and form ing a flap with fat within, and the whole thickness of the skin on front and back This was held flat on a wire frame Two weeks later the tongue was freed, the arm was raised and the flap was sutured into the upper two thirds of the defect. The arm was held in position by a plaster cast. The pedicle

was amputated after eleven days and eleven days later the remainder of the opening was completely closed. Several attempts were made to relieve the fibrous ankylosis of the jaws, but without success

fibrous ankylosis of the paws, but without success. By this method of treatment the defect was filled by a pad of tissue with the whole thickness of the skin on both sides. The circulation of the flag was assured before transplantation was begun. Most of the shimstage had taken place before it was transplantation as the strength of the shimstage had taken place before it was transplantation. The strength of the shimstage had taken place before it was transplantation. The strength of the ship was ready for transplantation. On the whole the result was very satisfactory.

E S TALBOT JR

Vance Head Injuries Trans South Surg & Gynec Ass Dec, 1912 By Surg Gynec & Obst

Eight cases were reported by Vance which may be summarized as follows

CASE 1 Twelve years before operation patient was struck on the head with a shovel followed by development of epilepsy Operation at the site of injury, consisted of the removal of a good sized button and resulted in complete recovery. There were no further epileptic sexures of pneumonia ten years later

CASE 2 Patient 45 years old became paralyzed two days before operation and gradually lapsed into complete coma and developed paralysis, beginning on the left side and extending to the whole body including the face. Sensation on the left side was enturly absent and greatly diminished on the next. Bowds and hadder partlyard, eye reflexe specific and hadder partlyard, eye reflexe specific and the showed a curious condition. The whole scalp has a referentious, and the right half presented the appearance of angioma, the venus were so greatly dilated. A piece of bone the size of a ten cent piece was removed, and the opening then enlarged to the size of a half dollar. The dura was incised, the brain explored with suction needle, and one half ounce of fluid obtained. Wound was closed without resembled very much what is designated by two or three authors as "weet brain."

Care Joy, seed no, head injured in street car scorden. Scalp from from both addes of the skull, loss of the panetal bone. Scalp cleaned, parts adjusted, and separate dressings applied. Thelve days later, with the patient in good condition, another doctor was called to soak he dressing off, which the author declined to do. The uncovered menings become infected, and the boy died three

days later

CASE 4 Injury of the skull in the right parietal region, patient being struck on the head by a base-ball Decompression operation nine weeks later, with removal of a good sized button Complete recovery, with no recollection of the accident by the

CASE 5 Boy, aged 10, sustained extensive compound fracture of the skull. The mastoid region and the area back of and above the ear were crushed Operation consisted of removal of several pieces of bone, the scalp being sutured without drainage Complete recovery.

CASE 6 Epilepsy, with loss of speech and power of locomotion, following an injury to the head Examination revealed depression over the left brow and temporal region Operation consisted of remov all of a large piece of bone without subsequent drainage, followed by complete recovery

CASE 7 Pistol wound at the junction of the frontal with the parietal bone, large enough to admit one's thumb Operation consisted of removal of fracture with some brain matter as well as fragments of bullet Followed by complete recovery

CASE 8 Tistol wound through the roof of the mouth, a hitle anterior to the junction of the soft with the hard palates, the bullet going entirely through the Drain No operative measures were carried out at this time. Mouth sprayed with antispetic fluids and hound nourishment given. At the end of six weeks the bullet was removed, together with several pieces of the skull. This was followed by complete recovery.

McGuire: A New Operation for Decompression
N Y M J, 1912, zcvi, 1265
By Surg , Gynec & Obst

The cause of the advancement in abdominal surgery has been the study of pathology in the living, and that the reverse is true of cranial surgery is

due to the lack of that study This can be accomplished only through large openings, and these should always be used in all explorations

Accurate studies of final results of brain operations are very discouraging. In a review by Taylor, of Philadelphia of 63 cases, all are dead save five, and only two of these have reached the three-year

Direct methods of decompression are entirely inadequate. In the subtemporal operation the relief of pressure is not sufficient, as is proven in cases where great pressure is known to be present, such as in extensive fracture of the base of the skull. The old methods for relief of pressure depend for success upon the development of a herma rather than upon the enlargement of the cranial cavity, in any operation for decompression where displacement of brain occurs, it must be in the direction where paralysis is impossible.

An incision is made from the mastoid to the crown of the head, and around to the mastoid on the opposite side A bone flap is made of corresponding size, the base of which is on a line with the transverse sinus Great care must be exercised in crossing the longitudinal sinus also before breaking the flaps of bone, to thoroughly separate the sinus from the flap If the tension be above the tentorium the dura can now be opened If not, the transverse sinus is easily separated with a blunt instrument, and with gentle pressure the cerebellum retracts so that an incision can be made in the dura, over either or both lobes In this way pressure can be relieved, whether the growth is above or below the tentorium, or whether it be on the right or the left side. The bone flap is replaced and held by two wire sutures, after the method of Hudson The advantages claimed for this operation are

1 Exploration and decompression are combined in one operation

2 Relief of pressure wherever the tumor be located
3 Absence of paralysis

4 Decompression is elastic, changing as pressure

Pussep: Operative Treatment of Hydrocephalus Internus in Children (Operative Behandlung des Hydrocephalus Internus bei Kindern) Arch f Kinderheilk 1912, ltx, 172

By Surg , Gymec & Obst

This starts with an exhaustive review of the hierature on the etiology and treatment of hydrocephalus. Then follows a report of 14 cases of 18 operated, the other 4 cases being eliminated because of insufficient data or other causes. Of these cases to were of chronic hydrocephalus, of acute, and 3 of hydrocephalus due to brain tumor. The operation performed was undertaken with the idea of substitution for the aqueduct of Sylvius, since the closure of this canal seems to be the etiologic factor in most cases. A skin and bone flap is made in the occupionartial region. A double flap of dura matter is

made The brain is punctured with a silver trocar down to the hydrocyphalus carity, the end of the trocar is then cut, bent, and fastened nate the dura flaps. This allows draining a into the dura and subcutaneously. Of the 10 chronic cases only 1 died The results here were quite good but depended upon the results here were quite good but depended upon the contract of the contract time. The contract cases one me to the brain tissue. In the acute cases one me to the brain tissue I and the case of the contract of the contrac

Pussep regards this operation in many cases as curative in others as merely palliative. It is technically simple. In chronic hydrocephalius intermist produces some benefit provided the nutrition of the child is good. In acute hydrocephalius from meningitis, if brain compression is great it not only aids the immediate symptoms but favorably influences the course of the disease.

C G GRULEE

Sanz. Gerebellar Tumor without Localizing Signs (Tumeur du cervelat sans symptoms de localisation, autopsie) Rev de med v cirugia practicas, 1913, xxxv., 324 By Journal de Chrurgie

Sanz reports a case of cerebellar tumor in which all localizing signs were absent. The patient was a farmer, 21 years of age, with a negative past history He dated his trouble from an accident in September. 1911, at which time he fell a distance of about nine feet, striking upon the right posterior aspect of his head At the time no serious symptoms manifested themselves A month later he began to feel pains localized in the right half of the head and some time later he complained of vertigo nausea vomiting trouble in hearing and weakness in the limbs, especially on the right side of the body From time to time he had attacks of diplopia He was ad mitted to the clinic on January 13 1912 At this time he had a convergent strabismus due to the paralysis of the right external rectus. The pupils were dilated and reacted sluggishly to light There was considerable diminution of visual acuity, especially in the left eye. There was neuro retinitis in the left eye, and papillary stass in the right. The auditory apparatus showed no abnormalities tendinous and periosteal reflexes in the right arm were increased somewhat above the normal Treat ment with iodides seemed to cause some improvement Cerebrospinal fluid was apparently normal While the patient was under observation, a slight tremor of the left upper extremity was once noted, which however disappeared in a few days. There was some difficulty in walking Visual acuity steads ly diminished On March 22 decompression was done, chiefly as a measure of rebef for the severe headache The patient died on the 24th Autopsy showed that the lateral ventricles were greatly dilated A tumor the size of a walnut was found occupying the white substance of the cerebellum and pressing upon the parts anterior to it. The pentoneum showed tuberculous nodules, and some

ascitic fluid. The histological examination of the cerebellar tumor showed that it was a tuberculoma Salva Mescapt

Kolbe. The Pituitary Gland During Pregnancy and After Castration (Untersuchungen von Hypophysen bei Schwangerschaft und nach Kastration) Arch f Gyndb, 1912, xxviu, No 3 By Surz, Gynge, & Obst

Investigators are now agreed that the anterior lobe is glandular consisting of epithelial cells, and the posterior is the infundibular or nervous lobe The former has a connective tissue framework filled with groups of cells of various Linds. The latter cells have various characteristic staining qualities Flesch divides them into two groups-chromophile and chromophobe The former group is subdivided into eosinophile and cyanophile cells. The work of Erdheim and Stumme on the hypophyses of men. nullipara and pregnant women shows the gland to be richly supplied with blood vessels and that the three components eosmophile, basophile, and main cells are present in varying proportions according to sex pregnancy etc Thus, in the hypophysis of a man the eosinophiles predominate, especially in the nosterior part of the anterior labe. The basonfules are most abundant in the anterior part of the anterior lobe The main cell (Hauptzelle) occurs less frequently in males and nullipara. This last named cell has a large, round nucleus, and the proto plasm stains very poorly. During pregnancy an increase in weight and size takes place in the glandu lar part and slowly recedes after birth Histologically one finds a great increase in the number of main cells (Schwangerschaftszellen) The basophiles are decreased even for a number of years after delivery In multipara these phenomena are more pronounced, especially in rapidly succeeding pregnancies

The work of the author deals with the pureal gian of multipars, multipars and carstrated wome, of guinea pags and of rabbits. Castration causes a escastation of the control over the gland by the owary, pregnancy causes a hypofunction of the orany and a specific action of the coprus luteum on the pureal body. In both cases there as an increase in the sure of the gland by the data of the gland possible and their protoplasm becomes the control of the gland of the gland possible and their protoplasm becomes deal of the gland possible and their protoplasm becomes the control of the gland possible and their protoplasm becomes and the grant protoplasm of the man cells becomes more deeply stanced the man cells becomes more deeply stanced.

A colored plate of four figures illustrated the observations of the author L W SAUER

Von Eiselsberg: The Removal of Tumors of the Hypophysis Arch f klin Chu., 1912, lxxx1, 90 By Surg., Gynec & Obst Von Eiselsberg reports in detail 16 cases of tumor

of the hypophysis operated in his clinic. Among these were 3 males and 13 females, ranging in age from 18 to 53 years. Eight of the cases were of Frohlich's type (typus adiposo genitalis) 6 had symptoms of hyperpituitarism (acromegaly), and z were of the combined hypo- and hyperpituitarism type. The most uniform symptoms present were the ocular disturbances, headache, and the excavation of the sella turcica shown by the X ray picture.

Of the 16 cases operated upon, 4 died. Among the 12 recoveres, there were 7 adenomats of the hypoph yas, 1 epithelial tumor, 7 perthelial sacroma (or carcinoma), 1 anguosaroma and 2 cysts. The period of observation was 3 months in 3 of the cases, 3 months in another, 13 to 23 years in 6 cases, and months in another, 13 to 23 years in 6 cases, and benefit in all the cases was the cessation of the beadache and the improvement of the vision where optic atrophy had not already occurred. The adaposity was reduced in 2 cases of Frohlich's type In one case the menses returned after being abbent four years. There cases of arronnegaly were marked by becuffic, showing the effect of its produced by 10 cess of 10 cess

nasi which persisted in 3 cases
The unfavorable results in the 4 cases were due
to a foudroyante meninguis following the operation
Three of these cases showed an inoperable basal
acroma which involved the hypophysis secondarily
Two of the cases had coryza (concealed by one patient) before the operation Von Eiselsberg warns

against operating in the presence of coryza
The operative indications are chiefly for the
relief of beadache and the visual disturbance. Slight
symptoms of acromegaly, adiposity, or impaired
visuan without changes in the eye-grounds are not
sufficient indications for operation. Von Eiselsberg
agrees with Cushing as to the adivisability of doing

sellar or subtemporal decompression in some cases The technique advised by von Eiselsberg is a modified Schlaffer operation He regards the intra cranial toute recommended by Horsley, McArthur (temporo frontal flan) Krause and Borchardt (frontal flap) as too difficult with the added danger to the optic nerve, the vessels and the brain tissue. The transphenoidal route is to be regarded as the method of choice Von Eiselsberg makes the following classification (1) Temporary nasal flap method, the original Schlaffer operation, modified by Hochenegg, Bruns, Kanavel, Mixter, Ollier, Kocher and Chiari, (2) the sublabial incision, recommended by Halsted and Cushing, (3) the endonasal method successfully performed by Hirsch, (4) the palatine method of honig, Lowe and Durante, (5) the pharyngeal method after suprahyoid pharyngotomy, as per Malgaigne and others

Von Eiselsberg grees his technique as follows. Three days before the operation the patient receives 2 gm urotropin daily. The coaguilability of the blood is determined and calcum lactate given if it delived. The nose and throat are carefully suffered to the complete and the com

locque's method The incision is made along the left maso labial growe up to the glabella, over the bridge of the nose to the right palpebral fissure. The nasal bone is cut through with hammer and chose! The philtrum nasi is cut at its juncture with the upper lip. A large portion of the septum and owner is detached with the nasal flap. The remains of the septum, womer, rostrum and the turbinates are next removed.

Hæmorrhage is stopped with adrenalin and com-The sphenoid sinus is now opened, its anterior and inferior walls removed and the cavity scraped out The hypophyseal tumor is usually exposed at this stage, the dura is incised, and as much of the tumor as is thought advisable is removed with a sharp spoon (excochleation) After stopping the hamorrhage, a cigarette drain is placed in the defect and fastened by a statch around the left nostril No tamponade is necessary Finally the nasal cavity is cleaned out, Bellocque's tampon is removed and the nasal flap sutured in its place The cosmetic results of this operation are usually good The time required is 1 to 1 1/2 hours Patients are left in bed 8 to 10 days in upright position

The two other operations which von Esselsherg recommends are Cushing's operation and Hursch's endonasal method which requires the services of an expert phinologist. He recommends his operation because of the simplicity of the technique and the wide exposure of the field of operation, allowing the operator to observe and control each step.

ERWIN P ZEISLER

NECK

Allen The Use of Tuberculin in Tubercular
Adentis of the Neck Penn M J, 1912, xv1, 216
By Surg, Gynec & Obst

The author finds that the primary source of this infection is usually through the tonsils, adenoids, or decayed teeth. These are removed or cared for in the beginning of the treatment. Caseous glands are allowed to break down spontaneously, and the cavities are lightly curetted. He recommends the injection of Koch's old tuberculin in serial dilution The injections are given weekly, beginning with two minims of dilution No 1 and increasing two minims at each injection. Olive oil and milk are used to build up the patient The results in forty cases show that the glands decrease in size, the patients increase in weight, the general health improves materially, and old sinuses of the neck, as well as the resulting wounds from the spontaneous breaking down of the glands, heal promptly with its use. The treatment must be continued over a period of six to eighteen months

Halsted. Vincent's Angina. Its Frequency and the Importance of its Diagnosis; with Reports of Two Fatal Cases. Laryngoscope, 1912, xm, 1372 By Surg., Gynec & Obst

Vincent's angina is the manifestation in the throat and upper respiratory tract of the infective

activity of the fusiform bacillus associated with spirochates and spirilla, the latter probably being but evolutionary forms of the former. These same organisms produce disease in all parts of the body, a pseudomembrane being produced on mucous membranes and abscesses in the deener parts. Hospital gangrene and noma are due to these organisms, while many cases of phagedenic ulcer of the penis and genitalia and abscesses of the lung and spleen have been reported A case of appendicitis followed by general pyzmia with multiple abscesses in all parts of the body, due to the fusiform bacillus, has recently been reported by Tunnicliffe Many cases of bronchitis, laryngitis, broncho pneumonia (the false membrane being the local lesion), and a few cases of mastoiditis, the fusiform bacillus being the pathogenic organisms in all of them, are found in the recent literature

Vincent's angina, strictly speaking, is the disease as seen in the mouth fauces pharynx, and larynx There are two distinct clinical types one resembles diphtheria so closely that the best observers are likely to err in diagnosis, while the other type simulates so nearly the throat lesions of syphilis the mucous patch, the tertiary ulcer, and even the initial sore, that unless one is careful he is likely to mistake an ulcer of Vincent's angina for a syphilitic ulcer The discase is altogether more frequent than has been suspected. A positive diagnosis is easily made by bacteriologic examination of a smear taken from a gentle curettement or a swab, preferably the former, of the under surface of the pseudomembrane or of the ulcerated surface itself. It may not be found if the smear is from the outer surface of the pseudomembrane The organisms do not grow on the ordinary culture media and hence are always overlooked by the bacteriologist in examining cultures for diphtheria, which accounts for the supposed infrequency of the disease

It is probable that 20 to 25 per cent of cases, clinically diagnosed as diphtheria but reported by the bacteriologist as being negative, are Vincent's The author reports two fatal cases of the disease. One occurred in a pregnant woman in whom the membrane occurred in the vagina and at the same time in the mouth and throat, a thick membrane covering all of the buccal and faucial mucous membranes, persisting for two months and producing profound toxemia, the patient finally dying suddenly as soon as labor began. The second fatal case occurred in a young woman, the membrane covering the alveolar borders and the buccal mucous membrane, causing such pain that she could not swallow, and also a most profound toxemia and secondary anæmia

For the mild cases, those resembling symbilitie lesions, various topical applications have been recommended, especially functure of iodine, but in the author's hands the best has been trichloracette and This application is made to the ulcerating surface after the membrane has been removed of hand the ulcer has been cleansed with peroxide of hydro-

gen. Cocam is used to anesthetuse the ulcer before the trichloracter acid is applied. Orthoform is prescribed to relieve the pain. Diseased teeth must be corrected. General tonic treathment is necessify. No specific treatment has yet been evolved, but it is hoped that a specific anticom may be produced hoped that a specific anticom, may be produced feels that must be prosubly be effectious, the author feels that he still use that remedy in his next service case.

Patoureau Contribution to the Study of Aberrant Gosters (Contribution a létude des gostres aber rents) Thèse de Paris, 1912 By Journal de Chirurese

The article includes an exhaustive resume of our present knowledge concerning aberrant goiters The author also cites the following interesting case A man 28 years old, who denied previous illness had a gorter for the past 12 years This tumor had increased rapidly in size during the last 18 months Upon examination, a spherical tumor appeared to occupy the median line extending from the cricoid cartilage to the sternum, definitely fluctuating and moving with the trachea upon deglutition Appar ently attached to the left margin of this tumor were two other quite small hard nodules the size of a nut On the right margin another tumor was present, the size of a goose s egg which gave the false fluctua tion of a solid tumor. It was soft and did not move with the trachea. It pulsated as a result of lying upon several large arteries emanating from the external carotid Under this tumor, two or three large nodules could be palpated

Except for a slight hoarseness of the voice, probably due to compression or traction upon the recurrent lary ngeal nerve, the patient presented no functional symptoms.

An operation was performed by Posson The large fluctuating tumor, which proved to be estite and which contained a bloody fluid, and the two small nodules were removed through a redian incision. The cyst was entirely independent of the attribute of the state of the

J L ROUY BERGER

Schulze The Effect of Operative Interference on Alimentary Glycosuria and Adrewalia Glycosuria in Basedow's Disease Entr * 18 im Chr. 1912, htm., 20 B Sung. (Opera & Obst Alimentary glycosuria occurs in about 25 per cent of cases of Basedow's desease This diminished carbohydrate tolerance in Basedow patients was first noted by Araus and Ludwig Schulze has tested

the sugar tolerance in 16 cases, both before and after

The operation consisted usually of resection of part of the thyroid gland As tests, 100 gm of grape sugar were given alone, later followed by the injection of o 3 mg adrenalin The urine was examined hourly for sugar In 4 cases out of 16 Schulze found that the administration of 100 gm grape sugar produced glycosuria within I hour In all these cases the glycosuria disappeared after the operation The intensity of the gly cosuria was very variable in all cases Adrenalin gly cosuria occurred in 80 per cent of the Basedow cases This also disappeared after the operation The removal of part of the thyroid substance has therefore a decided effect on carbohydrate metabolism The occurrence of glycosuria and its intensity may be used as a criterion of the severity of each case and of the severity of the reaction following the operation The reports as to the effect of therapy on the carbo hydrate tolerance in Basedow's disease are few in number Hirschl, Schwarz, and Falta observed the disappearance of glycosuria following X-ray exposures to the thyroid gland

The relation of the glands of internal secretion to carbohydrate metabolism is very complex. The glycosina in Basedon's disease is partly thy reogenous in origin. It is well known that thyroid tablets produce glycosina in normal persons, and may produce a real diabetes in a case of Basedon's, as Muller has reported. The intravenous injection of the pure expressed from a "struma" produces gland has the same effect. It has also been observed that thyroid feeding increases the inferance for

grape sugar in myxmedema The modern investigations on the interrelationship between the glands of internal secretion made especially by Falta, Eppinger, Rudinger and others, have shown that the thyroid gland and the pancreas are closely related Gly cosuria may be due to a pancreatic insufficiency in some cases of Basedow's disease The increased adrenalin reaction and the tendency to gly cosuria occur only in a certain series of Basedow patients which Eppinger and Hess have called the sympathicotonic forms They are not found in the so called vagotonic forms, in which we assume an increase in the internal secretion of the pancreas The influence of the thyroid secretion in Basedow's disease appears to be twofold produces an increased tonus of the sympathetic system and it has a direct inhibitory effect on the metabolism of excess carbohydrates in the body The latter action must be looked upon as a purely chemical action exerted by the altered thyroid secretion upon the products of the internal secretion of the pancreas The animal experiments of Falta, Eppinger and Rudinger have shown that normally the thyroid gland has an inhibitory effect upon the pancreas or its secretion. In Basedow's disease this is increased According to Klose's investigation the thyroid secretion in Basedow's disease undergoes not only quantitative changes but also qualitative alterations which may account for

the glycosuma. As Schulze has shown, the removal of parts of the thyrond gland leads to a high-grade diministion in the glycosuma, which is directly proportional to the amount of thyroid ussue removed. The severity of the glycosuma in Basedow's proportional to the severity of the disease. Petravel has described a case of Basedow's with alimentary glycosuma in Which he found hydropic satelling of the islands of Langerhans in the pancrass. These changes are to be looked upon as the expression of an absolute insufficiency of the princreas, which has been overstimulated by the abnormal thyroid secretion and lost its regulatory power in the carboby drate metabolism. Exery P. Exergis.

Flesch: The Sugar Content of the Blood in Basedow's Disease and Thyreogenous Hyperglycæmia. Best z klin Chir., 1912, lxxxu, 236 By Surg., Gynec & Obst

Flesch has estimated the sugar content of the blood in cases of Basedow's disease treated by operation. In none of the cases was a spontaneous hyperglyczemia observed. In 60 7 per cent of cases an alimentary hyperglyczma was found. The latter was increased in the first few weeks following opera-

tive treatment and gradually came to normal The initial rise may have been due to the loss of blood A similar increase was observed in a case of mysædema in which fresh normal human thyroid was implanted intraperitoneally. The ingestion of thyroid tablets produced the same effect to be looked upon as a thyreogenous alimentary hyperglycæmia, and is due probably to a condition of dysthyroidism Presumably the products of the internal secretion of the thyroid act on the pancreas and liver, either directly or through the nervous system, lowering the limit of assimilation for carbohydrates and leading to an excess of sugar in the blood Flesch also made the interesting observation that a high amount of sugar in the blood was associated with a low lymphocyte count, while an increase in the lymphocytes occurred with a decreased glycæmia ERWIN P ZEISLER

Marimon: Case of Hydatid Cyst of the Thyroid Gland (Un cas de kyste hydatique acéphalocystique de la glande thyroide) Rev d Cien med d Barcel, 1912, xxxviii, 485 By Journal de Chrurgie.

Matmon has been able to find only 20 cases of hydated cysts of the thyrouf reported in the hterature His case was that of a boy of 12 years, who had noticed during the preceding two years the formation of a small tumor at the base of the neck, which was of meaning the history, not painful, and of the size of a walnut. This tumor giver rapidly in size during the first six months after its appearance then remained stationary for a period, and in the last few months before admission had grain begun to grow It fluctuated There was some fever. Several dispension of the processing the proce

divided it into two lobes It was not attached to the skin, and could not be reduced by pressure head could be rotated freely and no painful cervical vertebræ could be made out by pharyngeal palpation The tumor moved with the larynx Exploratory puncture by the author yielded a purulent fluid of colloidal appearance Staphylococci were found in this fluid, but no tubercle bacilli. Thyreoiditis. or rather strumitis, seemed excluded because of the absence of any pericystic reaction or any of the signs of an inflammatory process. When the cyst was opened at operation, by a small incision just outside the sterno-cleido mastoid pus gushed forth under high pressure, and as soon as it had been evacuated a characteristic hydatid membrane was recognized The cavity was touched with 5 per cent zinc chloride Microscopic examination of the cyst wall showed the characteristic striation. No daughter cysts were found SALVA MERCADÉ

Kolb: Thyrogenic Bone Tumors Bett z klin Chir, 1912, lxxu, 331 By Surg, Gynec & Obst Kolb reports a case of sarroma of the panietal bone in a woman 75 years old who was operated for gostre 7 years before. The tumor was exterpated and showed typical thyroid structure. At the autopsy metastases were also found in the lungs About 50 cases of metastatic thyroid bone tumors were reported up to 1911 Nine of these were located in the parietal bone. The metastases occurred most frequently in the cranial bones and in the vertebral Trauma and thyroidectomy played an etiologic rôle in 9 cases The metastases occurred by way of the vascular system, possibly in some cases by retrograde transmission The primary growth in the thyroid is frequently latent and clinically may be unobserved. The diagnosis cannot be made positively except where multiple bone tumors plus a struma are present. The course of these thyrogenic bone tumors is prolonged and they may last years In general a solitary tumor in the bone if accessible, should be operated on radically as early as possible Multiple tumors may be treated with the X rays Recurrences occur years after removal of the tumor Exitus in Kolb's case oc curred the day after the operation, probably from variations in the cerebral pressure

ERWIN P ZEISLER

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Thorne Theories with Regard to Secondary Growths in Carcinoma of the Breast Bru

By Surg Cynec & Obst M J . 1912 n 1745 Paget in 1880 raised the first doubt as to the truth of the embolic theory of metastatic formation and called attention to the rarity of metastases in the lungs, whereas in the liver they were about four times more common He concluded that certain organs had a predisposition to become seats of secondary growths He pointed out the frequency with which certain bones were involved Handley thinks the spread of cancer is due to permeation of the lymphatics by cancer cells Perilymphatic inflammation tends to inhibit the growth of these cells, even after they have broken through the lymphatic boundary Again, it may be that the cancer cells are so pressed upon in the distended lymphatics that they become degenerate, and when freed are incapable of growth Handley says that perilymphatic fibrosis as a curative process is defect ive If these cells rupture the lymphatic before an adequate perilymphatic inflammation has been established metastases will arise. Handley de scribes the spread of cancer in the parietes by permeation of the lymphatic system as similar to the spread of an invisible annular ringworm. According to Handley's theory, bone should be attached at the point where it is nearest to the deep fascial lymphatic system, and he says this is true in the femur and humerus in the former metastatic growths occurring first at the base of the great trochanter, and in the latter at the insertion of the deltoid

According to Stiles the lower and mer margin of the breast less over the sint local cartilege, that is to say this part of the mammary circumference is only about an under from the interpare between the ensiform cartilage and the seventh costal cartilege. At the tip of the ensiform cartilage the transversial fascia is hardly recognizable as a distinct layer, and the partical lymphatic plexus is separated from the subperioneel fat simply by the lines alb. It is not supprising if, through this obviously weak spot, cancer frequently reaches the perioneum before it has succeeded in reaching the plexus, even at points and the supprising of the presence of the presence of emphasizes the accessive of careful preoperative emphasizes the accessive of careful preoperative examination to exclude enuestic and policy meta

He sho says that in removal of the breast for carrenoma the site of growth should be made the center of a circle from which the deep faces is to be removed. An annular incosion marking out the to-inch circle of deep faces is to be removed is carried down to the muscles through the deeper subcultureterior layer of the rectus sheath on both sides of the multine should be removed.

Sir George Beatson does not agree with Handley in toto and thanks there is more to the question than thus permeation theory alone. Cheatle puts three questions in regard to the posterior spanal root ganglia (a) Are the inflammatory changes within the posterior spanal root ganglia in any say, continued to the posterior spanal root ganglia in any say, continued the posterior spanal root ganglia in any say, continued the posterior spanal root ganglia in any say, continued the posterior spanal root ganglia in any say, continued the posterior spanal root ganglia in any say, continued the posterior spanal root ganglia in any say, continued the posterior spanal root ganglia in any say, continued to the posterior spanal root ganglia in the posterior

or point of incident? (3) If they occurred secondarily to the cancer, had their presence anything to do with the spread of that disease?

M S HENDERSON

Schubert: Displacement of the Trachea in Thymus Hyperplasticus. Beil z klin Chir, 1912, Ixxii, 269 By Surg, Gynec & Obst.

Schubert reports a case of thymus hyperplasticus in which a displacement of the trachea was observed in the X ray picture A child of one year was brought to Rehn's clinic (Frankfurt) with a fractured arm. For 8 months the child had suffered from attacks of suffocation with cyanosis and a hoarse strider, brought on by crying One month previously the child had been treated for bronchitis and rickets The child showed manufest signs of rickets - wide open fontanelles, a rosary, enlarged epiphy-The axillary and inguinal glands were enlarged The tonsils were not markedly enlarged The X-ray showed a mediastinal shadow which was especially manifest on the left side, and a marked displacement of the trachea to the right was clearly seen. An operation was undertaken to relieve the attacks of suffocation The left lobe of the thymus weighing 20 gm, was successfully removed. The child's general condition improved markedly after the operation, and the cyanosis and stridor did not return. Previous to the operation the blood picture showed a lymphocytosis reaching 75 per cent This came down to to to 60 per cent after the operation The thymus showed the usual histologic findings of thymus hyperplasticus

Schubert places this case in the category of status thymolymphaticus He assumes that the mechan ical action of the enlarged organ is of great importance and may explain the cases of sudden death as Grawitz originally supposed Paltauf considered the thymus hyperplasia as only part of a general lymphatic hyperplasia with hypoplasia of the aorta, and frequently associated with rickets Death was supposed to be due to sudden cardiac weakness Recent investigations have shown that the thymus is to be regarded as an independently functionating organ, as shown by its effect on the blood picture and on the bone changes The thymus plays an impor tant part in the symptom complex of the status lymphaticus of childhood From the standpoint of practical surgery it is of importance to know whether the enlargement of the thymus or its

mechanical pressure is the cause of this condition. The diagnosis of thymus hyperplasticus is based thirdly on the X-ray findings. Hochsinger investigated cases with symptoms of tracheal stenois in childhood and observed a mediastinal slandow which be interpreted as the thymus. Since then many radiologic observations of the mediastinal region have been made. We know to day that a definite extension of the median shadow to the left side makes a diagnosis of thymus hyperplasticus very probable in children. A shadow to the right is not convincing. These findings agree with the clinical convincing.

observation that the left lobe of the thymus is usually enlarged Höchsinger reports 4 cases in which the contours of the right side were normal while there was a definite extension to the left.

In the differential diagnoss in children, enlarged bronchial glands must be considered first. They usually produce a shadow on both sides and are symmetrical. The thymus shadow is more like that of a tumor mass. In adults aneurysms must be differentiated chiefly by their pulsation. Intrathoracce gottres give a cup-shaped shadow per than produced to the control of the shadow per than the shadow per the shadow

An important X ray sign of thymush/perplasticus is the deviation of the tracker. This sign was first emphisized by Curschimann in aneurysms. Pfeinfer demonstrated the displaced trackea with the X-ray, The trackea is also frequently pushed aside by strume, especially the intrathoracic forms. Wherever the pressure is enough to produce a stenoss, the X-ray may show a slight ampulary dilation above the point of stenous. The trackeal displacement may account in part for the sudden death in cases of many account in part for the sudden death in cases of larged thymus, analogous to the so called "Kropitod".

Roberts: Early Signs of Mediastinal Tumors. Lancel, Lond , 1912, clxxxiii, 1714 By Surg , Gynec. & Obst

Under this title are included malignant growths involving any of the mediastinal structures, enlargement of the intrathoracic lymphatic glands from any cause, and inflammatory swellings. All these tumors manifest themselves by symptoms, due to pressure on adjacent structures The author bases his remarks on 36 personal cases, all showing evidence of intrathoracic pressure. Of these, 14 were cases of malignant growths of glands or of the lung 8 were cases of malignant disease of the ersophagus subsequently affecting the surrounding structures, 3 were cases of enlarged tubercular glands, 4 were cases of non tubercular lymphatic affections, 3 were cases of mediastinitis, and 4 were syphilitic in character The symptoms met with in these cases were pain, dyspnora, cough, dysphagia, wasting anasarca, vomiting, biccough, and palpitation Wasting was, of course, common to all the malignant cases, and dysphagia was almost, but not altogether, limited to cases of disease of the œsophagus The relative frequency of the remaining symptoms may be inferred from the fact that pain was the most prominent symptom in 11 cases, cough in 8, dyspnera in 7, anasarca in 6, vomiting in 2, and hiccough in 1 Twenty two out of the 36 cases were malignant in character

It follows that the prognosis of mediastinal tumor, speaking generally, must be very bad Of the remaining cases, one died from mediastinopericarditis and two from lymphadenoma, but the remaining it cases recovered more or less completely from their symptoms, and the degree of recovery seemed to vary inversely with the length of time the patient had been affected It follows therefore, that early diagnosis of the presence and cause of intrathoracic pressure is particularly important in those cases where therapeutic treatment may be possible, i.e., when the cause is specific, inflam

matory, or tubercular in nature He takes up in order and reports cases under each herding as follows at Venous obstruction. Under this heading he refers to one vein in particular which is not frequently affected and is apt to be overlooked in this connection, viz, the vena azygos major 2 Resouratory obstruction This may occur alone in early cases, but generally when the patients come under observation it is found in association with venous obstruction 3 Pressure upon nerves. In many instances, especially in the case of slowly growing tumors, pressure upon nerves causes the first indication of trouble. The nerves most apt to be involved are the phrenic the intercostals, the vagus or its recurrent branch, and the sympathetic Pain, however, is the most frequent evidence of pressure on the intrathoracic nerves, and owing to the intercommunications between the phrenic and sympathetic and the intercostal and cervical nerves the areas to which the pain may be referred are numerous and extensive 4 Lastly, one other occasional early symptom of malignant growths of the lower mediastinum is pericarditis. A pericardial rub in old people is almost as diagnostic of malignant growth as it is of rheumatism in the young, or of Bright's disease in middle age. The diagnosis of mediastinal tumors must be made from the subjective symptoms and evidence of pressure on neighboring structures

Treatment If there be any possibility that the tumor is specific in character, antisyphilitic remedies should be vigorously tried Lven without a positive Wassermann reaction, and especially if the evidence is in favor of the trouble being mediastinitis, the same treatment should be adopted. In cases of anterior mediastinitis the possibility of surgical interference by means of trephining the sternum should be borne in mind. In cases diagnosed as tubercular, general hygienic measures should be adopted and the use of tubercular in appropriate cases should be considered. In the great bulk of cases, however, their malignant nature does not hold out any hope of beneficial treatment

D C BALFOUR

PHARYNX AND ŒSOPHAGUS

Meyer- Cancer of the Esophagus from the Standpoint of Intrathoracic Surgery Surg , Gynec & Obst , 1912, xv, 639 By Surg , Gynec & Obst

Although Meyer has so far shared the fate of all other surgeons who have resected cancer of the cesophagus intrathoracically, he having no recover ies to record, he nevertheless briefly publishes the histories of four patients in whom he performed this operation, and urges others to do likewise in order to aid in determining the causes that are responsible for the failures In his opinion they are principally as follows

The general condition of the patient is usually too much reduced when he reaches the surgeon 2 The advanced stage of the disease, the local growth often having transgressed the border lines of

the organ in which it started, involving organs in its immediate neighborhood, e g pneumogastric or sympathetic nerves aorta, or lung

3 The magnitude of the operation The extreme thinness of the wall of the exoph

agus in the human heing He believes the ideal operation for cancer of the esophagus to be, of course, resection immediately followed by ersophagogastrostomy However, this kind of operation is not often feasible, masmuch as circumscribed carcinomata of the esophagus are rare, and the stomach in man cannot be lifted more than about 4 inches above the diaphragm. Further more this mode of procedure is feasible only if the tumor involves the lower portion of the esophagus or cardia. In the majority of cases the carcinoma involves the greater portion of the tube Too large a piece of the latter has to be resected to make ersophagogastrostomy possible. All that can be done is to excise the tumor, invert, and properly secure the ends If the patient desires to regain the ability to swallow his food, a new esonharus has to be made by means of cesophagoplasty

At the German Hospital a cancer of the esophagus is attacked wherever it is found, i e, also if it be situated behind and above the aortic arch can be done properly only by first getting the scapula out of the way best by means of Schede's incision as originally devised for thoracoplasty, and the addition of a number of intercostal incisions. Multiple incisions do not add to the seriousness of the operation further than the few minutes required for

closing them

Sauerbruch reaches the upper part of the esophagus by means of an osteoplastic resection of the upper ribs and clavicle, from the right side excludes all cases with adhesions. Those behind and below the aortic arch are not properly accessible from this entrance

It has been Meyer's hard luck that all his cases proved to be of the infiltrating type Several inches had to be removed, and in each instance the ersophagus had to be pulled from behind the aortic arch in order to enable him to do the work properly

Three patients died the so-called vagus death, due to interference with the pneumogastrics, the fourth died from compression of the lung in cousequence of a sero-sangumolent effusion patient had experienced no shock from the transposition of the resophagus, as the pneumogastrics in

the upper part were not involved

In view of the fact that an anasthetic administered by an expert can be borne even by weak patients, and further, that very little blood is lost in these operations, Meyer believes that the cause death, soon after operation, must be in the handling of the pneumogythres. He therefore advises that these be exposed in their entire course and blocked by occanization below the aerite architecture, the conting to Ricch and Chel be and not above the same—if pneumogastries are occurated above the some architecture that there are not to be about a rich the prisent cannot have. He further more urges that these nerves never be bland; interfered with the prisent cannot have the form the prisent cannot under the guidance of the surgeon seves. For this purpose the additional interestial universal are the surface of the surgeon seves.

In see of the fact that the patients result the surgeon—at the present time at least — in a state of great emiciation. Mever has decided to operate in two stages whence it the disease is located in the middle or upper third of the essays located in the middle or upper third of the essays located in the middle or upper third of the essays located in the timor, disease of the essays located and proper artendance to the essays located and the essays located and the essays located and the essays located as the essays located

closure of proximal stump

Immediate drainage of the thorax is necessary after the first as well as second stage of the operation At the German Hospital this is done with the patient left under differential pressure for the first 12 of 15 to 20 hours Sutures in the resophagus in order to hold properly will often penetrate the lumen on account of the thinness of the human grophagus. It has been found best to strengthen the proximal stump with the help of a free fascia transplantation after a single inversion a method which Meyer has repeatedly tested with success in the dog It has been thought that after double inversion such fascia transplantation would also be unnecessary in the human being as it had proven in the dog. A recent experience of the author's however, has shown the error of such an assumption and the necessity of fortifying in man even a doubly inverted proximal stump with a piece of fascia making the latter surround the stump

Of course the surgeon's work would be greatly simplified in every respect if operation could be performed early in these cases which in turn means the necessity of early diagnosis and efforts should be principally directed to this end. With this help of the delicate touch of Schrisher's sound, stereo scopic X-ray pictures, and osophagoscopy, the attainment of this point should not be difficult, if the profession as well as lasty once begin to gran considence in this branch of thorace surgery. But to grin this considence we must be able to point to at least one case of recovery after resection of the asophicus for criticisom.

Menard: Gastrotomy for Foreign Bodies in the fl sophagus (De la gastrotome pour les corps étrangers de l ésophage)

Thête de Paris 1912, Nov Ly Journal de Chirurgie

Gastrotomy for foreign bodies in the ecophagus is equally applicable to foreign bodies of the lower part of the tube. The nuthor reviews the different therapeutic measures for removal of foreign bodies and shows their inchiacy, and their diagres in certum cases. Propulsion is a diagrerous method, event in instructs of small alimentary bodies.

I strution through the natural passage is the method while is most impliced and which can be most recommended but it becomes diangerous when one attempts to extract bodies which are fixed and situated in the lower portion of the essphiagus. Therefore, it is often not efficacious whether it is the forceps or the basilet which is used (120 cases of failure in 65 attempts.) Martin

(I sophieoscopy the method of choice, demands the skill of an experienced operator and failures are not of rare occurrence even to these. It is a contraindicated method in cases of advanced age and in those having emphysema, cardiac affections, and strophic cirrhoses with resorbarcal varices ing his conclusions on these considerations, the author shows the advisability of gastrotomy recommends median supraumbilical laparotomy, the stomach is opened by a parallel of perpendicular The examination of the cardiac end may present some difficulty but the ornice will appear if one pushes the stomach neither too high nor too low according to the method of Plugren guiding oneself by previous introduction of a sound through the mouth The attempt of extraction of the body is made with the tingers of one can use the forceps, or finally according to the method of Lajarre, by using retrograde catheterization (I sophingoscopy can also be used. The article is concluded with

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM Ertand Contribution to the Study of Epigastric

liernia, Ita Possible Coexistence with Ulcer and Cancer of the Stomach (Contribution & Idude de la hernie epastinque La coexistence possible avec l'ulcère et le cancer de l'estomac, undi cations qui en decoulent) Thète de Paris 1017 Nov By Journal de Chirurgie

The author takes up the subject from the historical aspect and points out that the digestive dis-

turbances and puns which may accompany engasthe brun's are now understood to be often due to accompying gastine affections such as ufter or canter rather than—as was formerly supposed to the involvement of the stomach or intestines in the hermal see, or to reflex phenomena due to strangulation of vascular or nervous tessues in the hermal like normal antomy of the linea ally is taken up from the point of view of the etiology and the puthogeness of this affection. The author emphasues under this heading its greater frequency in the male, the importance of familial and individual predisposition, and the significance of congenital malformations (Guilty umon and anomalous development of the recti) in infantile bernia. He then takes up the role of strain, trumatism, pregnancy, emaciation, and gastric affections. He admits that, except in the cases where there is alecration of the aponeurous, trauma alone cannot produce hermia will be approximated to the control of a chaines in the wall. He lays may factor of weakness in the wall. He lays may factor of weakness in the hermiting lipomata and the rôle played by the prepentioned He

In the following chapters he takes up the pathol opy and symptomatology of this disorder, and proposes to classify these hermas clinically, as pain und or princes. The paintees hermas often pass unrecognized and yield only physical signs. The symptoms in the cases of pundle hermas often seem to be due to coexistent organic discussed the stomach, such as uleer or cancer. The German authors (apelle Ury and Landenstein have laid stress upon this point. The epigathre pun is offered very variable in intensity and in radiation. It may led to womating with constitutional symptoms of

defective alimentation

In the differential diagnous the gistic crises of altes, the dispeptive liker and cancer of the atomach and umbilitied herait should be considered in forten process of the symptoms. Moreover the contract of the vagueness of the symptoms. Moreover the author therefore recommends that in the case of a punful epigastic herain not only should a radical cure of the herain be understaken by surgical means but at the time of operation a methodical exploration of the stomach about the carried out. Fifteen cases of ripgistic herain with containing before cases of ripgistic herain with containing before cases of ripgistic herain with containing before cases of containing before cases of ripgistic herain with containing before cases of containing before cases of ripgistic herain with containing before cases of ripgistic heraining the case of the containing before the containing the case of the containing before the containing the case of the containing before the containing the case of the containing the case of the containing the case of the containing before the case of the containing the case of th

Firket Primary Epithelial Cysts of the Peritoneum (Des kystes épithéliaux primitifs du péritoine) 4rch d mét exp et d'amb pathol 1913 XXV 507 By Journal de Christie

Firket reports the case of a man 57 years old with a negative past history in whom during a hermotomy a cystic growth was observed on the perstoneum of the hermal sac During the follow ing year the patient s abdomen gradually enlarged and became tense and painful there was dullness and fluctuation in its lower portion The swelling and pain were more marked in the left flank and here palpation reveiled a fluctuating tumor was no fever An incision along the external border of the left rectus showed that the omentum the mesentery and the parietal peritoneum were studded with innumerable small cysts whose contents were clear A small piece of omentum was removed, the wound could not be closed because of the extreme distention, and it was necessary to pick the onfice The patient recovered and stated that he was re

heved, but there was no change in the physical

The omental cysts held a clear liquid containing mucin and but very little albumin. The cyst walls were lined with large low eputhelial cells, the inner most layer of which bore the cilia. The external layers of connective tissue were not differentiated from the surrounding omental tissue.

Five similar cases have been reported by Henke, Nager and Frints, Himmelheler and Kirebberg, and Ziegler The author considers that these tumorysts arise from the pertional epithelium. The may develop independently of one another at distant points on the serous membrane. They are not as the considered as malignant tumors, though tumors of the personal. Massaw.

Ransohoff: Fat Hernia, Trans South Surg & Gynec Ass Dec., 1912 By Surg, Gynec & Obst

Seven cases were reported by Ransohoff in this paper According to his conception, certain characteristics accompanied the primary fat herma. (1) A true fat herma was a protrusion of a preperitoneal fat mass or lipoma through one of the ordinary hernial apertures It followed the course pursued by an ordinary herma (2) A peritoneal process within such a hernia was always difficult to find because of its small lumen Such a process, when present (in a minority of his cases), was secondary to the fat herma and probably resulted from trac-The ordinary contents of a herma were not found and could hardly enter into the narrow serous tube within the fat mass (3) The onset of a fat hernia might be sudden, like that of the ordinary type of herma with preformed sac. In three of the cases recorded the history of sudden onset was very clear and the proportion of cases too large to be charged to inaccuracy of observation on the part of the patient (4) The diagnosis of fat bernia was Although not reducible, they were far from casy capable of a seeming reduction in a fair proportion of cases (5) An ampulse on coughing could usually be obtained since the hernia could receive the brunt of the increase of intra-abdominal pressure like an ordinary reducible herma (6) In very rare instances symptoms of strangulation might result from torsion of the fat herma (7) The treatment of fat herma differed in no way from that of the ordinary type It was probable that these cases would only be recognized as fat hermias during the operation, therefore measures for radical cure would be instituted, such as those in vogue for the ordinary forms of herma I'S TALBOT, JR

Halpenny Internal Hernia, with a Report of a Case of Mesocolic Hernia. Canid M Ass I, 1912 11, 1994 By Surg Gynec & Obst

Varieties of internal herma are (a) left duodenal, (b) right duodenal (c) mesocolic, (d) herma into the retrocolic fossa, (e) into the intersigmoid fossa, (f) into the foramen of Winslow, and (g) into the lesser sac through an abnormal opening

Left duodenal herma occurs into the fossa of Landzert which is situated to the left and some distance from the duodenum The fossa is formed by a fold of the peritoneum raised by the inferior mesenteric vein. The orifice of the sac looks downward and to the right This is the most common location of retrongritoneal hernia

Right duodenal hernia occurs into the fossa of Waldeyer, which lies within the cavity formed by the arch of the superior mesenteric artery orifice looks upward and to the left

Mesocolic herma occurs into the mesocolic fossa. which is formed by a fold containing the left colic

The retrocolic fossa lies behind the execum and the lower part of the ascending colon

The intersigmoid fossa is formed by the two layers of the mesocolon of the sigmoid flexure, and this fossa occurs in from 70 per cent to 80 per cent of all bodies examined by Treves and Moynihan But according to Moynihan only two cases of hernia

which were authentic were reported up to 1906 Herma through the foramen of Winslow is more frequent than many of the above mentioned varieties Moynihan has reviewed twelve cases from

the literature.

Hernia through an abnormal opening into the lesser sac has been reported in twelve cases

Case report Patient had stomach trouble for fourteen years Trouble came on in attacks during which time there would be a great deal of pain and discomfort Between the attacks she would be free from pain and could eat anything desired. The attacks steadily increased in frequency, until a year or so before admission to the hospital. She was at no time free from distress

The chief complaint on admission was burning pain, which came on one to one and one half hours after eating This was accompanied by eructations and was relieved by food taking Vomiting was a prominent symptom and was present almost from the beginning. The character of the vomitus had gradually developed into the type found where there is retention in the stomach and often contained blood. At the time she entered the hospital she would vomit three undigested meals each evening Nothing had ever been noticed by the patient which would make her suspect blood in the stools

Examination of the stomach contents twelve hours after a meal showed undigested food, free Hel, none, lactic acid, a trace, total acidity, 10 Blood examination showed hamoglobin 60 per cent, reds, 5,500 000 No occult blood found in the stool Palpation of the abdomen showed tenderness over the whole pyloric region, but no mass could be felt. There was apparently an obstruction to the outlet of the stomach, but no definite diagnosis could be made.

Operation showed a perpendicular tear in the transverse mesocolon and the gastrohepatic omentum Through this all the small intestine had passed from behind forward, except the proximal three inches of the jejunum and the terminal six inches of the ileum The gut was all replaced and the aperture closed An old healed ulcer of the duodenum was found, but this produced no obstruction fibrous membrane extended from the gall-bladder to the ascending colon and this was carefully divided between ligatures The patient made an uneventful J H SKILES recovery

Parker. Tuberculous Mesenteric Glands Simulating Appendicitis. Boston M & S J, 1912, clavat, 915 By Surg, Gynec & Obst

Primary tuberculosis of the mesenteric glands is to be observed clinically as an exception, perhaps as a rarity, but when it does occur it is so alarming in its manifestations that it deserves serious considera-

These diseased glands may occur anywhere in the mesentery, but the usual site is the ileo excal region It occurs as an isolated gland or group of glands with no other foci elsewhere demonstrable. It seems to be a disease of childhood and early adult life

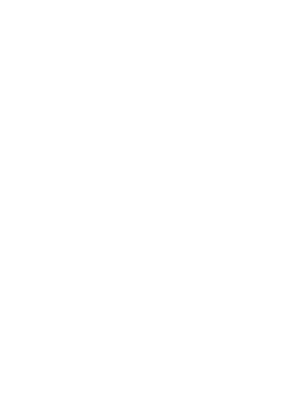
Diagnosis is very difficult and at times impossible. as the disease follows no definite symptom complex It occurs either with moderate indefinite pains pointing to no particular abdominal organ or anpears and with a certain preference, under the aspects of acute or chronic appendicitis or ileus

It occurs with or without a palpable tumor When a tumor is present a diagnosis is easier, since a palpable abdominal tumor in a child, remaining constant under all conditions and not fæcal, is almost certain to be tubercular glands adults, multiple tumors in the region of the small intestine, if leukæmia is ruled out, are almost pathognomonic These glands may cause peritonitis, adhesions and intestinal obstruction or they may be present without associated conditions

Two cases are reported First, a case of isolated tuberculosis of mesenteric glands beginning with symptoms of an acute recurrent appendicitis and progressing along the lines of an intestinal obstruc-The disease had caused by direct contact, irritation of and adhesion to a contiguous loop of bowel, with resultant obstruction. In the second case the disease manifested itself as a slowly developing, moderately severe appendicitis Operation revealed a large cascous gland without appendicitis or peritonitis

Out of 39 cases reported in the literature, in a large percentage a diagnosis of appendicitis or ileus was made before operation and the true condition recognized only after the abdomen had been opened

Laparotomy is always indicated General opinion is that, where possible, the glands should be removed Extreme care must be taken not to infect the peritoneum Removal intact is ideal, but where not possible curettement and suture with or without drainage should be performed. The mortality for all types collectively is under 15 per cent



All living organic tissue is as resistant to the action of gastric juice as the stomach wall itself
 Only a superficial maceration takes place with

accompanying inflammation
3 Serous membranes are also macerated, and are
therefore no protection for any organ
CARL RECA

Thompson: Fatal Hæmorrhage from Erosion of the Gastroduodenal Artery by Duodenal Ulcers. Trans South Surg & Gynce Ass Dec, By Surg, Gynce & Obst

1912 By Surg , Gynec & Obst.
The essays thad seen two fatal cases of bleeding from duodenal ulcers in spate of the operation of gastro enterosiony. In both cases the ulcer was statusted on the posterior surface of the first portion of the duodenum, and in both the harmorthage which proved fatal came on at a time when it looked as if the patients would recover from the operation. The first patient died 34 hours after the operation, with all the symptoms of conceiled knownface, but as no autopay was allowed one could only surmasse from the position of the ulcer that the gastroduodenal vessel was eroded. The second patient lived 22 hours after the operation after the operation after the operation after the operation and the second patient lived 22 hours after the operation after

In discussion, Winslow reported a case of complete anterior dislocation of both bones of the forcarm at the clow E S TALBOT, JR

Paterson Is Gastric Ulcer a Frequent Precursor of Cancer? Lancet, Lond, 1012, clxxxiii, 1710
By Surg, Gynec & Obst

The author doubts the stated frequency of car cinoma developing on gastric ulcer. He says the problem is a difficult one and a dogmatic position is impossible He considers the question from both the clinical and pathologic sides The two fallacies on the clinical side are (r) the assumption that we can diagnose a gastric ulcer from the clinical history alone; i.e., because a patient with cancer of the stomach gives a long history of dyspeptic trouble, we are not justified in assuming that the symptoms have been due to gastric ulcer (2) The assumption that carcinoma is never protracted He reports a case alive and well four and one half years after a gastro-enterostomy for irremovable carcinoma, from which tissue was removed showing spheroidal celled carcinoma The alternative that carcinoma is grafted on ulcer is that simple ulcer and carcinoma may occur in the same patient. On the pathologic side he quotes the statistics of Wilson and Mac-Carty, stating that 71 per cent of the specimens of cancer of the stomach obtained in the Mayo clinic showed evidences of an old ulceration says the weak point of their argument is the absence of proof that the ulcer in which cancer cells are present was ever anything else but malignant Again he says that death from cancer following gastroenterostomy for ulcer is a rare event. His own experience is that a per cent of his patients, on whom gastro-enterostomy is performed for simple ulcer, die later from carcinoma He thinks the question is unsettled and believes that in the meantime the verdict should be "Not proven"

D C BALFOUR

Jacque and Woodyatt: The Peptolytic Power of Gastric Julce and Saliva, with Special Reference to the Diagnosis of Cancer Arch Internal Med., 1912, x, 560 By Surg., Gynec & Obst

The literature on the Neubauer and Fischer glycaltraptophan test for peptolytic power in gastric juice is reviewed and the principles underlying it discussed In order to ascertain the causes which have led to conflicting opinions in the literature concerning the value of this test the writers devise a quantitative procedure by which the peptolytic power of gastric juice and saliva is measured and expressed in numbers A 2 per cent solution of Witte peptone is mixed in definite proportions with gastric juice or saliva and a 10 cc sample subjected to formalin titration at once After 24 hours at 37° The difference in C. a second titration is made the two titrations in terms of TOKOH and reckon for 100 cc gastric juice is termed the "peptolytic index 1

Examinations were made of 40 normal cases, to hyperacidity cases (benign), 10 subacidity cases with HCl present (benign), 16 cases with HClO, and 23 proven cases of cancer with high and low acidities

Saliva and gastric juice were in several instances examined in the usual way and also filtered (Berkefeld filter) and handled afterwards with asentic precautions The principal conclusions are Saliva, normal gastric juice and that of benign subacidity cases, when filtered only through namer and covered with toluene according to the usual custom. frequently but not always show some peptolytic power Superacid gastric juices show less Passage of the material through a Berkefeld filter eliminates this peptolytic power It is due to bacteria - not to body enzymes In 87 per cent of the cancer cases the peptolytic indices were 2 to 10 times as high as the maximum figures obtained in any of 76 non malignant cases Filtration lowered but did not eliminate this In cancer cases there is a filterable peptolytic agent besides the bacteria

For ordinary clinical purposes it is recommended that a filtered per cent solution of Witte perpose, a parts, to gastric juice, i part, be used in place of the glycityrophan solution "Ferment Diagnosticum" and that exclusion of bacteria by filtration through a Berkeld or similar filter with subsequent aspeas be substituted for antisepas by tolicine, which is not certain to control bacterial action Splitting can then be detected by the usual bromme preferred. The test has definite opportunities of the preferred the test has definite opportunities and eveloped cases of cancer. The writers point out developed cases of cancer. The writers point out at its in a few of their postive cases, but only in a few, 4 out of 10 was the diagnosis in doubt by ordinary methods.

Gibbon. Partial Gastrectomy in a Case of Multiple Carcinoma of the Stomach. Am J M Sc, 1912, cxliv, 781 By Surg, Gynec & Obst

Multiple primary malignant growths are sufficiently rare to warrant publication of the following The history in this case was practically negative until June 1911, when the patient first developed gastric symptoms. At that time he was suddenly seized with an attack of vomiting. The vomitus was black and the patient thought it contained blood Similar attacks occurred repeatedly for some months during which time he rapidly lost weight and color. In the four weeks prior to admis sion to the hospital he had lost 12 nounds interesting point is that the patient never had any symptoms of indigestion. The slight discomfort which he felt showed no regularity as to the time of its occurrence his chief complaint being vomiting. which did not occur every day but he often vomited in the evening food which he had eaten at breakfast Free hydrochloric acid was absent and no lactic acid was found upon examination of stomach contents

These with other symptoms warranted a diagnosis of probable gastine cancer Slaagraphs showed marked irregularity in the outline of the greater curvature, both at about the middle and near the pilorus Operation was undertaken January 27, 1912 A large round nodular mass about the middle of the greater curvature was found, which involved of the greater curvature was found, which involved

both anterior and posterior walls

About one inch from the pylorus on the greater cur vature was another hard mass with an excavated center There was no pyloric obstruction and no marked enlargement of glands. The diseased portion of the stomach was resected and a posterior gastro enterostomy was made, catgut and linen suttres being used

The pritent's convalencence was satisfactory excepting a slight infection, and be was discharged from the hospital Marth 7 1912. In three weeks after his discharge he gained in 2 pounds and was able to eat all kinds of food. The patient died on July 23 1912, of general debulty, but without a recurrence of any gastric symptoms whatever. His only complaint was weakness in the legs, and it was thought for a time that he might have a spinal meastaxis but this could not be determined as so autopsy was must only the died of the died of the country of the died of the die

HISTOLOGY

Sections from the margin of the smaller ulcer show an infiltration of round cells with a moderate uncrease of intertubular connective tissue. Immediately below this is a rather abrupt transition to a new growth, this new growth being made up of tubules very irregular in size and shape, and lined by columnar epithelial cells mostly in single layer, but in some tubules stratified. Sections from the wall of the larger ulcer show a transition from murcos into a tumor mass which extends below the muscularis without involving the overlying mucosa, the contrast between the construction of the two being very striking

DIAGNOSIS

Both ulcers show carcinoma, which in each case is in direct relation with the gastric mucosa. The structure of each, as above described, appears to justify the diagnosis of adenocarcinoma of the

smalfer uleer and medulary carcumoma of the larger. The author then reviews the meager literature, speaking particularly of multiple malignant growths reported by Fenwick. When two cancers of the same structure are found in the same organ, the occurrence may usually be attributed to transference by contact or to autonication. It may be that the distributed of transference by contact or to autonication. It may be that the distributed of transference by contact or to autonication would apply to this case. The have a malignant change taking place is the fact have a malignant change taking place.

Pisek and LeWald Pyloric Obstruction, with Comparative Study of the Normal Stomach of Infants. Arch Pediat, 1912, XXIX, 911 By Surg., Cynec & Obst

This paper strongly, advices the use of the X-ray in determining the ability of the stomach to force food through the pylorus. For this purpose his much was given and an X-ray picture of the stomach was taken at various intervals after feeding. The article is accompanied by 12 cuts of X-ray pictures of the stomach. The food may be observed passing under normal conditions in infants into the diodenum within a minute or two after ingestion. This should be of great value in conditions which show should be of great value in conditions which show can be differentiated from pyloric strenous by this means.

Pelissier Duodenal Ulcer Obliterated by Adherions of the Gall-Bladder, Gastro-enterostomy, Secondary Duodenal Perforation (Ulcite du duodeloum oblitet par adherience de la viessude biliaire, sténose pylonque Gastro entérostomie, per toration duodénale secondarie) Buil et mém d l'Sec anat d'Paris, 1912 xw 371 Bi Journal de Chirutpie

The author operated a case which he had diagmosed as gastre uiers with piloris stenosis. In the course of the gastre enterosiomy, it was observed that the piloric region was surrounded by adhesions and the pilorius showed a white cicatrical zone Operative recovery was at first excellent, but on the third day, without any apparent peritoneal excession, the patient deel. At autopy the peritoneal excellent of the discovery of the peritoneal excellent particles. On the anterior aspect of the first portion of the dundenum there was present a large peritoration cut out as with a stamp through the cicatrical tissue. On the dependent surface of the gallbladder a round area, delimitated by a thin line of the boken adhesions, corresponded to the shape of the duodenal perfortion and could be exactly superimposed upon it. It was evident that the primary duodenal perforation had been plugged by the gall-badder, and that operature manipulation, which had torn apart the old adhesions, was responsible for the peritoined.

Struthers: Perforated Duodenal Ulcer. Edin M J, 1912, 1x, 505 By Surg Gynec & Obst

In an excellent analysis of 27 personal cases, Struthers shows that the histones fall into three groups—63 per cent with chrome dyspepsis for menths or years, 20 per cent with only occasional gastric disturbances, in no way characteristic of douolenal uler, and is per cent previously in perfect health. This shows that while a previous history of dyspepsis is helpful in diagnosis, a negature his tory does not rule out perforation. He does not agree with Moynhain in the latter's statement that "no chronic ulere of the duodenum exists without be traying its presence by symptoms."

clearest significance."

There was no premonitory sign or symptom of immunent perforation, but the diagnosis after the most of pertonits was easy, except that in three cases the physical findings pointed to an appendiced attack. When the differentiation between the two conditions is impossible Struthers opens through the right rectus below the umbidicus and eriplores

the appendiceal region first

In four cases the improvement in the few hours before admission to the hospital made the diagnosis of a secrelesion doubtful. The history suggestive of an ulcer with severe initial pain decided him to operate and perforations were found in each case although the only preoperative sign present subthough the only preoperative sign present in the present sign that the present sign present in the later stage of the illness the origin of the pentionities is largely a matter of guesson's before operation

Stress is laid on complete muscular relaxation at operation, chloroform being preferred as an an astiletic, while the previous use of morphin is discouraged as likely to diminish the activity of the

respiratory center

In all cases the ulcer was on the anterior wall of the duodenium within one and one half inches of the P) lorus, the largest diameter being from two to six mm in length. The size of the ulcer bore no relation to the elapsed time since perforation large Openings being found within a few hours and vice Versa. Food material in the abdomen was so rare that the amount of actual leakage was considered to be slight, probably because of arrested peristalsis following perforation

In Struthers' opinion, excision of the ulcer is un necessary, infolding to secure broad peritoneal approximation being enough and closure with interrupted No 2 or 3 plain catgut strictes being preferred to the use of silk If the patient's condi-

tion permits, he believes a posterior gastro enterostomy should be done, the resulting rest promoting healing of the ulcer and tending to prevent recur Practically all of 17 cases in which gastroenterostomy was done are now without digestive symptoms, while two out of three in which a gastroenterostomy was not done still have indications of Relapse is what he expects a duodenal ulcer without gastro enterostomy, and for this reason its performance is advised when possible, although he states that it is not an indifferent operation, and should not be done merely because it helps recovery. but only if it be a permanent benefit to the patient Struthers believes that flushing the abdominal cavity with saline is probably harmful, and he closes the wound but provides suprapuble drainage

In this series of 25 operated cases, there was a mortality of 20 per cent, those that recovered being operated within 24 hours of the onset Sutteen had a posterior gastro enterostomy done, and of those, 41 at least have had no relapse, the other two having been lost sight of Of the three in which only infolding of the ulcer was done, two have had a

return of symptoms after some months

Five patients died all of a general peritoritis, in none was gastro enterostomy done their condition being considered too bad to justify the prolongation of the operation E K Armstrong

McClannan: Intestinal Obstruction, with a Clinical Study of 181 Cases Trans South Surg & Gynec Ass, Dec., 1912

By Surg , Gynec & Obst

McClannan stated that the form of operation required in any given case must depend on the nature of the obstruction and on the presence or absence of complications. Thus, we grouped the operations performed into three classes, namely rehef of the obstruction, excision of intestine, and enterostomy

In order to judge the efficiency of any of these operations it was necessary that the procedures be compared with regard to the stage of the disease at which the operation was performed. This was the only logical basis for study of the treatment of ob struction, and avoided the confusion of many classes as to causation, differences in position of the obstruction and variations in the completeness of the occlusion Each of these factors altered the rapidity of development and the duration of the three stages of the disease, consequently a study of intestinal obstruction from the point of view of the symptomatology and treatment of these stages balanced the relation of the various factors and made the comparison of operative statistics possible

Of 34 patients treated in the first stage, all recovered Of these, 12 were relieved of their symptoms by enemas and purgatives. The other 22 were operated upon In 15 the obstruction was releved, resection was performed in 3 cases, entrostomy with short-circuiting and enterostomy with relief of obstruction, once each, simple enterostomy was done taxe. Relief of the obstruction, therefore, was the best operative procedure in cases treated during the first strige. When provision had been made for a delayed enterostomy, this was the best procedure in post-operative obstruction, probably because opening the previously brought up loop gave no operative shock.

Sixty six patients were operated upon in the second stage, 55 recovered, and 11 of these dad as a result of a second operation or some complication developing later than one week after the original operation. The operations performed were as follows relief of obstruction, 44 6 fatal, short-circuit ing, 2, excision 14 enterostoms, 4, enterestoms with other operations 15 One patient was relieved by an enema Gangrere was present in 10 cases a were treated by anastomosis and excision 8 pa tients recovered 6 were resected. Rekel of the obstruction seemed the best operation in the second stage provided gangrene had not developed. In the presence of gangrene resection was the best operation provided the constitutional symptoms were not pronounced. In the latter event enteros tomy should be added to the resection or if the condition of the patient was grave, the loops might be brought out of the abdomen and packed off with

gaue, with an enterostomy above the obstruction lighty two patients were operated on in the third stage, 32 died. Relief of the obstruction was done in 25 per cent of the usered and in a per cent of the first of the careful of the fattle careful of the careful of the fattle careful of the fattle careful of the careful of the fattle careful of the careful of the fattle careful of fattle Resection was done in one fattle care and careful of fattle careful of f

done

In the third stage enterostomy should be done, either alone or in conceitom with the other procedures. In the non-grangenous cases enterostomy was done in 77 per cent of the cured and in but 41 per cent of the fatal Cases.

Bloodgood in discussion and that the essays it was the first to publish a large number of cases showing the importance of the effect of washing out the stomach and of groing enemis to aid in the carb diagnosis of intestinal obstruction a thing always neglected outside of the hospital and often neglected in the hospital.

in the hospital Brown said the importance of draining the dia tended loop of board above the obstruction coul from the too strongly accurate order of years ago, in a price to the too strongly accurate of the discount of th

tion was made without losing any time. The use of the stomach tube and rectal tube, both before and after operation, was of exceeding importance.

Stone stated that with the use of esemi and enemas, properly given, he had never seen a purgative necessary. Since he had been using that combination he had never found a secondary operation necessary where the condutions were rot most formulable where that simple method of treatment was properly tred.

University and that in looking back on the fatal cases of the fatal ca

Charles H Mayo stated that in the last year, in cases of intestinal obstruction they had in four cases through the appendicostomy incision, been able by drainage to overcome the immediate obstruc-

from

Ransuboff called attention to the use of the X ray in locating the obstruction in acute cases. Outside of hospitals this was out of the question but when a patient was brought into the hospital it took but a short time to get an X ray picture, and in three recent cases the obstruction was located by this means.

Morris stated that for a year or more he had been using injections by rectum of bismuth solution also using it by the stomatch as far as possible, and the employing the fluoroscope, and in this way determining definitely the seat of the obstruction

Royster said that if there was retention of stybulous masses, and the bond was gripped on something and could not release itself if the gift was with distincted and the patient was voimting, with very little or no pain we could give a few doese of evers two or three bours until two or three doese were given, to be followed by an alum enems. If the patient was in great prin we could give it, gr of by own it to be followed two bours later by an enema. With this treatment he had found some cases and not need operation at that time and operated to the patient was the contraction of the most properties.

hince, said he had used the appendix after the method mentioned by Mavo in eight or ten cases of intestinal obstruction and in his experience it did full that Mayo said it did and it was a very valuable aid in those cases where the obstruction was his down.

The indiscriminate use of eserin was followed by distribute results. His attention had been called to the fatt by Abel of the pharmacological department of Johns Hopkins, that eserin under ordinary circumstances had a marked depressing effect. In one case it apparently had a very alarming effect In one or two others it was followed by marked symptoms of depression, but its withdrawal was followed by decided improvement

Hall emphasized the point made by Dr Brown in reference to draining the intestine above the seat of obstruction in those cases where it was thought best, at the time of the operation, to resect the gut had used the method advocated by Dr Brown in a number of cases with satisfactory results As to the use of eserin, he had seen a number of cases in which there was depression following its administration and he usually gave it in no larger doses than one fortieth of a grain

Unslow said that neither eserin nor any other agent was going to relieve a patient when the intestine was mechanically obstructed, and there was nothing to do but to operate Ferin could only do rood in cases in which the bonel was not

mechanically obstructed

Boyee had been using eserin after operation as a routine in every case ever since Craig of Boston brought it to the attention of the profession neser failed to produce a bowel mosement in a tase in which there was no intestinal obstruction

Cranford had personal knowledge of a patient who was given one fiftieth of a grain of eserin, by mistake, and who was greatly prostrated by it so that for two or three hours death seemed imminent However, the patient did not die Another patient a clergy man, to whom he administered one fortieth of a grain of eserup on the second or third day after the operation told him he felt as though a stick of

dynamite had exploded within him

Milne, of London said it was very fashionable in the London Hospital to give esemi but now it was only the extreme cases of distention that responded to the use of eserin. They did not give more than one hundredth of a grain at a dose and they did not give more than three such doses could not say that in any of the cases they had noticed any particular collapse from the use of the drug

Fibrecht related some experiments with eserin on normal individuals. He found that small doses had absolutely no effect in many instances whereas larger doses gave prompt action of the bowels found it was usually twenty minutes to half an hour before it acted E 5 FALBOT TR

Miller: Acute Invagination of the Heum Secondary to Sarcoma of the Small Intestine. Trans

South Surg & Gynec Ass , Det 1912 By Surg Gynec & Obst

In a search through the list of reported cases Miller found only a few instances similar to his own case in which sudden acute symptoms gave the first warning of intestinal trouble. Only three such cases were found in Moynihan's list. In the other 37 cases, symptoms of transitory abdominal pain, occasional comiting attacks, and nausea preceded the recognition of the growth from a few weeks to

over three years If there could be a cardinal symptom it would be the presence of a tumor was present in over 60 per cent of cases when brought for examination or operation. It was always present in children and nearly as constant in adults More than half the cases were reported in patients over 40 years of age Cachezia was only marked in children except in the late stages | Fever was often present, as may be expected from the large percentage in which ulceration occurred Constinution was not a rehable symptom, although often present. Darrhera was noted in a few. Three cases had been reported as occurring in the ileum, years after severe attacks of typhoid fever, and Nothnagel reports an instance of surcoma that developed from tuberculous ulcerative scars. In 10 out of 46 instances the growth was single, in 16, multiple was curious to note the frequency of adhesions between the bladder and involved coil of intestine In the cases, Lecène reports adhesions in 12, 7 of which were instances in which the bladder was the any olyed structure E S TALBOT JR

Horsley and Coleman. Experimental Devascularization of Intestines with and without Mechanical Obstruction. Trans South Surg & Greet Lis Dec 1012 By Surg Cyrnec & Obst.

In the joint paper by Coleman and Horsley they reported twelve experiments all on dogs done under full anasthesia in which segments of intestine from the lower alcum varying from two to five inches. were deviscularized by cutting the attachment of the mesentery close to the bowel in all except one the omentum was wrapped around the devascular uzed segment. In the instances the segment was obstructed by types at each end. I wo of these does died from gangrene and perforation of the loop One died after three days without perforation, one lived thirtien days and the other lived fourteen days. In seven dogs a loop of intestine was devascularized without being obstructed and the omentum wrapped around the segment. None of these does dad as a result of the operation The authors concluded that either no toxic substance was formed in the divascularized loop or segment of intestine which was unobstructed or else this substance, if formed and excreted, was not absorbed by the normal mucosa They emphasized the fact that in dogs at least, a loop of bowel when separated from its mesentery and unobstructed might be properly nourished by wrapping the omentum around it E S FALBOT IR

Gregor: Intestinal Lesions Due to Contusions of the Abdomen N 1 St J M, 1912, 211, 727
By Surg Gynec & Obst

The object of this paper is to call attention to the relative frequency of intestinal rupture after abdominal contusions, especially in rural and agricultural districts. Three types of injuries were described as producing these lesions First, that produced by a rapidly moving object affecting a circumscribed

area of the abdomnal wall Second, crushing inpures when the intestines were caught between the contusing force and some bony surface. Third the tearing accident produced by a fail. In the first class, the resulting rupture was described as a blow out. The elements entering into the mech blow out the elements of the production, a small point of impace, the surposition of the bowels.

In diagnosis the primary shock was to be disregarded, as that depended upon injury to the aldominal sympathetic system and not to the intestinal lesson. But shock, continuing or developing after four or five hours, with increase of pulse rate associated with increase of abdominal pain and tenderness, with naisea or vomiting and, most important of all, with muscular ngulsty of the abportant of all, with muscular ngulsty of the abportant of all, with muscular ngulsty of the abtemporatory increase. The state of the pair of the temporatory increase.

Thornburgh Multiple Gunshot Wounds of Intestine without Perforation of Lumen

Ann Surg, Phila 1912 let 886 By Surg, Gynec & Obst

A private of the 30th Infantry attempted sucide, March 20, 1071 by abouting binsell in the abdomen with 30 calibre Army Springfield rifle. The murzle was beld against abbotien outside of the clothing 3 cm to the left and 2 cm above the clothing 5 cm to the left and 2 cm above the etc. I state would rem diameter, at level of umbulcus and directly above the left posterior superior sprinc of the little.

A laparotomy was done less than an hour after injury was received Belly was full of blood re quiring ligation of 12 large mesenteric vessels, 15 cm of sleam was found deutided of all pertinoned and most of its musculir coat. Mesentery of same completely destroyed Numerous injuries to de scending colon and mesentery, but lumen of gut not netforated at any point.

On account of severe shock resection of ileum was out of the question. The omentum was brought down and a pocket formed completely covering injured bowel and mesentery. This was fastened by interrupted seturers, replacing outer two coats of ileum and both layers of mesentery. Uninterrupted recovery.

neys which, following harmorrhige into one of these kidneys, showed symptoms of acute intestinal obstruction

The patient was a man of 55 years Upon admission to the hospital he showed signs of ileus There was abdominal distention and vomiting, and a feeling of pressure in the left side with extreme

tenderness in this region. The left flank was occupied by a tumor which was very painful on pressure The overlying abdominal wall was rind and on percussion this area was found dull from the costal margin to the iliac fossa Cacostomy was performed, after which the symptoms of obstruction disappeared It was then possible to make out a fluctuating tumor in the left flank. This tumor gave lumbar ballottement Aspiration of the tumor was performed and a vellowish, rather turbed fluid showing traces of blood, obtained The presence of peristaltic waves which started at the excum and reached as far as the epigastrium led at first to the diagnosis of an infected peoplesm of the descending colon with secondary retroperitoneal abscess. But inflation of the colon was found to diminish consider ably the area of duliness over the tumor, and the conclusion was arrived at that the latter was retropentoneal and probably renal. Ureteral catheten zation showed that the right Lidney was functioning though the urea elimination was diminished. A left lumbar incision showed a cystic kidney, in which there had been a hamorrhage that had colored the contents of the cysts During manipulation a large cyst runtured The capsule of the Lidney was then incised the clots removed, and the cavity cleaned The patient made a good recovery, and the lumbar wound healed Palpation of the left hypochondrium had shown the existence of an enlarged Lidney on this side The author's conclusion is that the extreme distention of the kidney. due to the hamorrhage, had caused intestinal ob struction by pressure on the descending colon He had been unable to find a report of a similar case

Bonneau Tuberculosis of the Small Intestine (Tuberculose de l'intestin gréle) Paris chir, 1912 is 900 By Journal de Chirurgie

The case was that of a man of 20 years, formerly operated on for appendicitis who on admission com plained of attacks of abdominal pain with a sensation of transverse subumbilical pressure Penstaltic waves and borbors gmus were observed. The temperature reached 104° There was well marked meteorism The attack lasted three days and was terminated by the passage of large green, fetid stools and gas from the intestines After two or three days of quiet a similar attack would follow The patient had lost 12 kilos in seven months of this illness. His abdomen was slightly distended, though elastic Below the umbilious there was a sensitiveness to pressure and at certain points a feeling of doughy consistency Rectal examination revealed soft adherent masses above the prostate. A diagnosis of tuberculous peritonitis with intestinal stenosis was made At operation it was found that some loops of the small intestine were encased in inflammatory tissues which at certain points had greatly constricted their lumina, the sigmoid and colon were not much involved, the cacum was definitely infiltrated and thickened, but not stenosed, several large glands were found in the mescatery Bonneau resected 50 cm of the small intestine, including the points of stenosis Recovery without complications. Two months later the patient was still free from the attacks, though unable to work because of weakness and the continuance of districts. The suthor makes no claim for a cure, but considered the operation indicated as a palliative measure of value in a hopeless case

I L ROUY BERGER

Wiener: Gangrene of Heum Complicating Appendicitis. Ann Surg, Phila, 1912 lvi, 900 By Surg, Gynec & Obst

Report of a unique case of gangrene of the ileum, at some distance from the ileo carcal valve with normal ileum intervening between the gangrenous portion and the cocum and with the cocum normal Operation during the fourth attack of appendicitis disclosed turbed fluid in the peritoneal cavity appendix had almost completely sloughed away A loop of small intestine was found adherent to the abscess cavity, completely denuded of its mesentery, the vessels of which had thrombosed On the eighth day a fæcal fistula developed and the loop of ileum was found completely gangrenous in the wound One hundred and thirty-eight days after the first operation a side-to side ileo colostomy was done for a persistent fæcal fistula. In spite of this, although most of the stool came away per rectum, a fæcal fistula still persisted. One hundred and seventy-eight days after first operation an extensive intestinal resection was done. The ileum distal to the point of ileo colic anastomosis was excised, together with the cocum and part of the ascending The open ends of ileum and colon were closed with three layers of sutures inches of ileum and twelve inches of large intestine were removed There was a slight temporary fistula at the site of the sutures in the ascending colon wound finally healed completely, nine months after the original operation Lighteen months later the patient was still in good health and had two movements of the bowel daily

Singer On the Secretory Activity of the Stormach in Chronic Appendicitis, with Gastric Symptoms Lance Lond 1912 Cextum 1711 By Surg Gynec & Obst

It is now generally admitted that there is a definite association of chronic appendicular disease with gastric ulter. The author has recently had the poportunity of making very detailed analyses of a stries of 300 cases presenting gastric symptoms. But of these cases were subjected to laparotomy that the properties of the control of t

but also a cause of hyperchlorhydra. His conclassons are a follons i T. Chronic appendicits has frequently been found in association with gastric symptoms. 2 When this association occurs, a gastric or duodenal olicer may or may not be present, but in all cases the gastric junce has yielded abnormal analytical results. 3 The abnormalities may conast of hypersecretion or of hyposecretion both of chloride and pepsin, of the presence of a peptolytic ferment, and of the elevation of the "introgen factor" 4 These abnormalities can be appendix of the presence of a periodix is retious the stomach and on the appendix. 5 Removal of the appendix does not always relieve or improve the symptoms. D (Batrops.

Reder A Sign of Diagnostic Value in Obscure Cases of Chronic Appendicitis Elicited by Rectal Paipation Trans South Surg & Gynec Ass, Dec. 1912 By Surg , Gynec & Obst

In the more obscure forms of chronic appendicitis. where other points had failed, Reder stated he had been able to make an absolute diagnosis through a point located in the first (sigmoidal) portion of the rectum. These cases belonged to a class whose symptomatology did not invite attention to the appendix region on account of the total absence of focal symptoms In many of these cases pressure at McBurney's point had not given the reflex pain that was expected and usually obtained in a lesion of the appendix of this character, while pressure at Morris point had proven equally as negative An absence of these reflexes was usually sufficient to dismiss the thought of an existing appendix lesion, The point in the rectum, however, had invariably given a positive reaction in the presence of a chronscally diseased appendix. The part of the rectum concerned in this examination was the first portion, It began at the sacro that synchondrosis and usually the left side was entirely covered with peritoneum and had a mesorectum which gave that portion of the bowel a certain amount of mobility mobility was of some value in the examination Within the lumen of the bowel at the junction with the sigmoid about 31/2 or 4 inches above the margin of the anus there existed aggregations of circular fibers that formed a valve This valve was constant. was known as the valve of O'Beirne, and varied but little in its distinctive circular characteristics This valve served as a landmark, and was an important factor in the examination

In making the examination to reach the points, the patient was comfortably placed upon his back on the examining table, with both legs fixed. The index finger well labracated was introduced into the rectum, and a search made for O'Berne's valve, the rectum, and a search made for O'Berne's valve, cally, especially when it was located by one difficulty, especially when it was located by the stable the extraining finger was rather short. It was absolutely necessary that the valve be located. Its recognition was readily perceived, the sensation imparted being very similar to that which the

examining finger experiences when introduced into the os uteri during the first stage of labor. In size, he had found the valve to vary, being in some as large as a ten cent piece, and in others as large as a quarter.

The valve having been located, the finger was hooked into it and gentle traction made upon the structures to test the mobility of that portion of the rectum The tip of the finger was allowed to rest within the lumen of the valve, and the nationt asked if he experienced any pain. The answer was usually "No " Should there be any pain, it was generally referred to the sphincter area of the rectum By allowing the finger to rest for a short time this pain would subside After being assured by the pitient of the total absence of pun the tip of the finger was gently pushed upward toward the right iliac fossa when, in the event of a lisson of the appendix the finger would touch a point beyond the valve that would cause the patient great pain. As a control maneuser, a similar point might be touched by sweeping the examining tinger toward the left inguinal fossa, usually with negative results. The accuracy of the diagnostic value of this point had been verified in some 200 cases. The patients comprising this series give a period of time when their health was not good ranging from six months to After removal of the chronically twelve years diseased appendix the patient was fully restored to health in from three months to two years

I S IALBOT JR

Fwart The Preoperative Diagnosis of Appendicitis Demonstration of a New Method by Dorsal Examination Brill M J 1912 B 1741 B Surg Cone. & Obst.

The author believes that if this method of dorsal precussion were used some fital cases of absenses would be correctly diagnosed and successful operation performed. There is normally a dull area be neath both sacro that joints due to the that blood sessels. If a retrocard abserse or retrocted appendix he privent the dullness on the right side will be increased. M. 5 IRNO BOOK

Case X-Ray Studies of the Heo-Cecul Region and the Appendix Am Quart Konigen 1912 is 03 By Surg Cynec & Obst

The like crucal region was examined radioscopically and radiographically after the bismuth metal and following a barium sulphate (1) sma. The injection method was found to be expectifyll valuable to show the mobility and relations of the tolon as well as incompletine, of the ilocacit value. The metal proved more serviciable, in determining motified and points of adhesion and also to show the appen.

dix The author found incompetency of the flee excal valve to be present in 33 cases out of 200 examined. In some of these it was associated with perity phlitic adhesions, in some overdistention of the excum seemed to induce it, while in others no cause could be assigned.

Ordinarily the bismuth meal starts to pass through the ileo-excel value in about four hours, and the greater part of it is in the cacum and ascending colon in six hours. Where stass occurs, due to adhesions, the ileum becomes distended proaumit to the stenotic part. The latter is found to be firmly fixed and cannot be displaced by changes in postion of the patient or by palpation. This stass in the ileum may, by dragging on the meantery, cause a duodenal stass, as well. An obstructive lesion of the colon may be responsible for interference with the onward course of the bismuth in the ileum.

Regarding the appendix, the author has seen over 60 crass in which this organ became filled with bismuth for a period varying from a few hours of many days. The size of its laumen, its shape, its position and whether it is fixed or movable can be accertained. Four draining as evidenced by reservation of the size of the size of the size of the would seem to indicate potentiality for danger and argue for removal of the organ.

Defects in the filling of the cacum with extensive fixation and construction of the terminal ideum, especially if associated with pulmonary tuberculosis is very suggestive of tuberculosis of the ileo-excategion. Malignant tumors may give much the same picture.

Adhesions between the excum and other parts of the colon may cause considerable distortion and interference with multility. Even the sigmoid has been found thus attriched to the appendix in one case and to the excum and gall bladder in another

A cacum mobile and atomicum may be readily diagnosed by the Rontgenologic method. Tistulous tracts leading to the cacum may be traced by filing them with Beck's paste and simultaneously injecting the colon with a bismuth suspension.

ADOLPH HARTENG

Appendix Brit M J, 1012 u 1500
By Surg. Gyner & Obst

Keith says the opinion has gradually been gaining ground largely through the work of Lane, Metch nikoff and Barclay Smith that the great bowel from appendix to rectum (in man) has become a useless and dangerous structure. His paper represents study and a review of much literature to show that it is by no means proven that this structure is uscless and suggests that if we only knew how to keep it suitably employed by altering our diet to meet its requirements we might make it serve us and future generations just as well as it answered the digestive needs of primitive and successive races in the past Interesting diagrams are shown of comparative anatoms study in man the rat and the ostrich The author does not agree with the theory that the appendix is vestigial. He mentions that chimpan zees in captivity and on human diet frequently die of appendicitis though he says there is no evidence to show that this anthropoid in its natural habitat develops this disease M S HENDERSON

Cugnier: Primary Malignant Tumors of the Heo-carcal Valve (Les tumeurs malignes et primitives de la valvole Heo-cécale) Thère de Poris, 1012. Nov. By Journal de Chrutige

The author has brought together observations of 60 cases of malignant tumors arising definitely from the valve There is no pathologico-histological report of 16 of these, the total number on which this work is based, therefore, being 44 cases

Cancer of the slo-crecal salve is a relatively rare tumor. It is difficult to determine the percentage of occurrence, because it has frequently been studied with cancer of the terminal portions of the slide and sometimes as a particular case of cancer of the occum. Cancer of the valve proper can invested secondarily, either the carcium or the sleum, giving two anatomical types, excoodiviluar and slovalvular, this last form is accompanied with a very marked stenosis of the sleum.

The aspects of the tumor are variable, sometimes the sa lateral tumor timplated by a base more or less large on one of the lips of the valve and expand ing into the creum or the islum, sometimes it is an annular tumor — "cancer en virode". More frequent), it looks like a collar which retracts the valvular orifice. When it mivades the sade of the cecum it may be very extensive, reaching to the ascending colon or even extending beyond it. Metistasses into the clands is rare and late.

The symptoms are of two kinds First, chronic occlusion (alternating diarrhoea and constipation syndrome of König, syndrome of Ricard Mathieu) tending toward an acute occlusion or cachesia, with invagination of the ileo caccal region into the large missimes, at first chronic, then acute One can determine then the presence of a tumor and the emission of bloody mucus

The treatment consists in resection of ileo cacal junction. If this is contraindicated by the local or general condition, an entero anastomosis including the ileo cacal loop should be made.

J L ROUX BERGER

Lane: Chronic Intestinal Stasis Lancet, Lond., 1912, classin, 1706 By Surg, Gynec & Obst

The author defines the term "chronic intestinal stasss" as an abnormal delay in the passage of the intestinal contents through a portion or portions of the gastro intestinal tract, which results in the absorption into the circulation of a greater quantity of toxic or poisonous materials than can be treated effectually by the organs whose function it is to convert them into products as innocuous as possible to the tissues of the body The author refers to Carrel's experiments with Living tissues outside their natural environment, and says that he has found the most satisfactory confirmation of his views in the study of Carrel's work. To meet various diseases he adopts means to improve the drainage scheme, whether simply mechanical or operative, with the most excellent results. This is nowhere better exemplified than in the extraordinarily rapid disappearance of large tubercular glandular masses in the abdomen after disconnection of the by lowel. Presentation of the skin becomes a very marked feature in advanced cases of stass, especially in patients with dark hair. On eliminating the supply of poson the color and the circulation of the skin change with remarkable rapidity. "In the case of the Endrey affected by so-called Bright's disease, which is merely a product of chronic intestinal stass, the exclusion of the large bowel is followed by an improvement in functioning which as a extraordiarty as it is rapid, and a patient who has been face to face with death is quickly restored more or less completely to bealth, usefulness, and activity."

The great difficulty in the treatment of chronic intestinal stasis and its results is to recognize when the end result has assumed such proportions that the removal of the primary cause does little or no good As an extreme instance, take cancer of the breast or of the ducts of the liver or of the nancreas. all products of chronic intestinal stasis in the first In the case of the thyroid, Lane has seen a large adenoma of this organ subside with great ranidity after removal of the large bowel Typical symptoms of exophthalmic goitre of long standing, associated with intestinal stasis, have also rapidly and permanently disappeared. He states that the extraordinary improvement that results from shortcircuiting and the disconnection or removal of the large bowel is due largely to the fact that the evacuation of the small intestine is facilitated by its introduction into the pelvic colon, and that the infection of its contents by organisms which grow in the stagnating material in the large intestine ceases He does not believe that all absorption abruptly of toxins takes place from the stomach and small He does maintain that the tract other intestine than the colon plays a very important part, he believes the more important part, in the process of absorption D C BALFOUR

Schachner. Experimental Anatomical and Physiological Observations Bearing upon the Total Extirpation of the Colon Trans South Surg & Gynec Ass., Dec., 1912

By Surg , Gynec & Obst

In this paper, Schachner said that when we considered the arrangement by which 20 or more feet of small intestine were being supported through a perstoneal attachment measuring five inches, the weakness of the abdominal wall in the inguinal remon, and the bernias that resulted from the gravitation of abdominal contents against this lowest and weakest point, when we compared the darkened lungs of the human subject with the clean, pink lungs of the quadruped hving under the same condition, as a proof of how unequal the cilia were m their efforts to lift the dirt and bacteria-laden mucus against gravity, and when we watched the pathetic efforts of the tubercular subject to raise against gravity his expectoration, - then we got a full idea of the disdayantages of the upright position.

ltbuthnot Lane, through his work that extended over more than ten years and especially his recent writings, together with I has Metchnikoff, deserved the credit for calling the attention of the world to the injurious effects of intestinal stress. While the end to-end anastomosis was functionally the most natural, the end to side had the advantage of more security and practically the same advantages that applied to end to end. His experimental work justified him in believing that when an descretos tomy or deosigmoidostoms was made by the lateral method, the intestinal contents did not pass through this opening as a rule but continued the natural course through the colon provided no obstruction existed. In other words it was a repetition of what occurred in the stomach after a gastro enterestoms with a patulous pylorus

The work of Metchmkoff plainly suggested the chemical side of the question that is, the chemistry of the large intestine when its functions were for any length of time interfered with. The influence of an abnormally movable kidney as a factor in the development of splanchroptissis had not received the

attention it deserved.

I on of us parhaps realized that the retroperationed position of the kidnes when making excursions enabled it to dissect loose through attrition the peritoneral attritionent that served to anchor the viscera to the vertical column.

He wished to emphisize the point that the problem was comprehensive enough to accept all the assistance it could through symmastic bandages regulation of diet and habits and still furnish an abundant percentage of human wreckage for the surgeou to attempt to reclaim 1.5 Taksor 18.

long, Pseudoperitoneal Cauls of the Colon Irans boulk Surg & Gynec tis Dec 1912 By Surg Conec & Obst

The nomenclature of the subject was considered by long who analyzed the terms 'adhesions * pseudomem membrinous percolitis 1011 branes etc which were ordinarily applied to the condition described. He showed that we often used very mixing terms in speaking of the membranous formations found about the colon. He proposed the term "pseudoperitone il ciul as being descriptive and withal correct (aul means a thin scrous membrane and was especially applied to peritoneal membranes is the layers forming the great omen The membranes in question were evidently of peritoneal origin and by the testimony of the majority of writers they were a new formation therefore 'pseudo,' hence the term "pseudoperi toneal caul of the colon

There were four chronic conditions found in the right three fosses, namely chronic appendicuts Lanc's link Jackson's membrane, and excum mobile, all of which had much in common as to ectology, pathology, and spintom complex, and were difficult to differentiate clinically. Of this group the writer find stress on the pseudoperations?

cauls of the colon, and believed them to be largely of infectious origin, though he did not deay the influence of developmental errors, splanchioptosis and intestinal stasss F & Tairor, Jr

Brown The Value of Complete Physiological Rest of the Large Bowel in the Treatment of Certain Ulcerative and Obstructive Lesions of This Organ, with Description of Operative Technique and Report of Lase. Trans South Sure Future. Art. Dec., 1911.

By Sure, Gipee & Olsa. The advantages of complete physiological test of the entire large bone in treatment of certain disases of this organ were strongly pointed out to flowin who discribed a technique by which this flowing the complete of the cases shitch heritotic rest could be accomplished in cases shitch heritotic restricted bow the rest could fulfill may be about the based be ruth thek into commission in a majorit

both safe and satisfactors Through a right rectus incision sufficiently long for general exploratory purposes the abdomen was opened The excum was at once sought and the large bowel was carefully examined from cacum to All pericolic adhesions were then severed, the appendix removed and the stump huned. The sleum was next severed, between two clamps, close to the ileo-carril value. The distal ileum was tied off and buried as was the appendix. At a suitable part of the carcum a purse string suture of heen was placed and the excum was next incised. Through this incision a large rubber catheter was inserted after which the purse string was tightly tied second purse string of No rehromic catgut was next placed. Under the loops of this purse-string three long catgut tixation sutures were placed wound was next made at McBurney's point through which a forcers was inserted. The catheter and fixation sutures were grasped in the bite of this forceps and pulled through the stab wound. The pentoneal surfaces of the excum surrounding the catheter were vest scarmed and the catheter was pulled through the stab wound, carrying with it the three fixation sutures. The eitheter was now shoped through the button and the fixation sutures were threaded through the eyes in the button and tightly tied thus closely approximating the serous surfaces of the calcum to the parietal peritoneum I stiff rubbir drainage tube was next inserted into the proximal deum and fixed with a double purse string suture. The ilcum was now brought out at the lower angle of the rectus mersion. The parietal peritoneum was made to hug it snugly by a few catgut sutures and the abdominal wound was closed in the usual was. The indications for restoring the continuity of the large bowel were improvement of the patient's general condition and the return to normal of the discharge from the excluded large bowel as shown after repeated chemical, microscopical or cultured growth examination of irrigation fluids passed through it. This restoration should not be made too early, particularly in the

ulcerative lesions of the colon. When the surgeon deemed that the large bowel had sufficiently heated, and desired to put this organ back into commission, this retoration was readily done by simply cutting out the anus at the lower angle of the rectus incusion, closing its end with a purse string suture, making a lateral nanatomosis of ileum to ascending colon or by switching the tleum too the sorting united and continuity. On the contrary, the operation was simple and easy.

This paper was based upon the experience he had gained from ten cases so operated Two were cases of chronic intestinal stasis, with obstructions due to pericolic bands and flexures, both had greatly improved and were now comparatively well Three operations were done for the relief of amorbic disentery, all were cured One was a case of ulcera tive colitis with extensive involvement of the sigmoid and rectum, the patient was now in good health. One was a case of extensive obstructive tuberculous colitis This patient received great relief from the operation and lived in comfort for two months Three were for late and moperable mang pancies of the rectum. One lived six months, one five months, and the third case was still living, mine months after operation, comfortable and in reasonably good health, so there was no mortality in the series E S TALBOT IR

Royster: Adhesion of the Sigmoid. (With discus sion) Trans South Surg & Gynec Ass, Dec, 1912 By Surg, Gynec & Obst

In this paper, the author said that sigmoid adhesion was associated with definite symptoms which he believed could be relieved by simple means Three years ago he directed attention to sigmoid adhesions as a cause of pain in many cases of sal pingitis which were attributed to the ovary and other organs Further experience and observation had convinced him not only of the importance of this adhesion, but of its more widespread interest so that the whole question had assumed a broader aspect and was coming into consideration in every case of abdominal diagnosis that we had presented to us Women commonly complained of left sided pain, but it was not always properly inter-preted. The ovary was too often blamed as the chief offender, when as a matter of fact there was very little pain associated with ovarian disease Most often the tube was the source of the pain and asually preceded any ovarian involvement. In a number of instances neither the tube nor ovary was found involved, yet the woman had pain particular thing which was characteristic of sigmoid adhesion as observed chincally was first, pain during defecation and not afterwards. In addition to this, some of the patients described a stoppage at certain points Constipation was the rule, but in a few cases the condition was associated with mucous diarrhoea or a mucous discharge from the bowel Usually the pain was low down in the left thac region, but it might be higher up, near the sphein or midway. Most of it was below the afterior spine of the ilium. A typical example of sigmoid adhesion was that of a matricel woman who had given birth to two or three children. She complained of incressant pain in the left quadrant of the abdomen, and was sent in as a case of tubal disease. Her greatest suffering was on going to stool. She was obstantely constipated. Pelvic examination was negative. Her abdomen was opened and a closes esginoid adhesion revealed. This was dealt with and the abdomen closed. She had been free from pain now for more than two years. Other

similar cases were cited In discussing Royster's paper, Hunner said the first of two or three cases he saw of this condition was operated more than once for pelvic and other conditions in the abdomen which might be imagined to be causing the real trouble, and finally these sigmord adhesions were found and reheved, with recovery of the patient As regards the etiology, some of these adhesions did not come from the large bowel but from without to the sigmoid He found in some of these cases that the adhesions ran from the internal inguinal opening over to the large bowel in the shape of fan like peritoneal adhesions. In other words, the infection had apparently not come from the large bowel at all, but from the lymphatics running into the peritoneal cavity with the broad ligament. He found that in some cases chronic urethritis was associated with this condition of left sided pain, but not all females with chronic utethritis who had belvic bain had these adhesions

Byford stated that in those cases in which the adhesions were not connected with the sigmoid he thought the pain was usually low down, extended of towards the false pelvis about the thair region, and made it more or less a backache, whereas in the other class of cases the pain extended up along the colon was apt to extend into the back and be more to the left such

Moore said sigmoid adhesion was a definite surjucial entity, and we could releve it by surgical measures. In a certain number of cases there was a definite symptom which would enable one to make a positive diagnosis from the ordinary examnation and that was a sausage-shaped tumor extending up the left iliac region toward the splenic flexure.

Dickinson spoke of four types of immobilization of the sigmod. One was the congenial type, where the attachment of the left adnexa to the sigmoid was rather closer than usual and interfered with its function. The second was the inflammatory type from the left adnexa. The third was one in which there were the second was the inflammatory type from the second was trouded the care appendix when the second was th

E S TALBOT, JR

Verhoogen and DeGraeuwe; Cancer of the Rectum (bur le cancer du rectum) J mell de Brux, 1912, 2011 541 By Journal de Chiturgic

The authors have operated 48 cases of cancer of the rectum, 40 of these occurring in the last five verts In these they made an artificial that anus 6 times (a deaths) In 14 cases they performed externa tion of the rectum with 6 immediate deaths in which 4 had necrosis of the intestines with metastasis situated higher up - Lifteen patients were operated in private practice of Verboogen It ex are interest ing from the point of view of post-operative history Thirteen survived the operation Six had recur rences between the sixth and the twelfth month One died of pneumonia at the end of 6 months One was lost sight of Three had not had recur rence after 5 3 and 2 years respectively cases are too recent to judge of the post operative effects. In a cases there are a cures of some duration (at per cent)

The operative technique followed by the authors is a resection of the ampulla of the return very much like that employed by Depare. The patient is placed in a ventral position a median mission is made from the anus to the coscyx the ampulla is freed and extrapated and the sectioned intestine above the point of the tumor is introduced through the sphinter which has been denuded of its missions.

membrane

minute authors the most surgeons enlarge upon the danger of gangeree of the newly formed rivium. They call to mind the antiomical indiancy of wader's upon the savularization of the return but it seems according to the recent researches of veler that his gargerie can result from infestion as gangerie his occurred when the ligature has been placed above the entiral point of wides. We have the properties of the recent point of wides with inhibitation of the newcolon and in cancers situated higher up in the nexture. The authors have utilized the al-domino coccygal mute following the technique of tooped, which is already employed to Depare and Maser.

PALL MATRIES

Hazen. A Method of Operation for the Radical Cure of Enteroptosis, with a Preliminary Case Report of 100 Per Cent Cured Linear If J. 1012 x10 708 By burg Gyne. & Obst.

The escential supports of the culon are the sim attachment of the upper ends of the ascending and descending colon to the posterior abdominal wall imperiest favious at these locations usually from congenital future in fusion, allows the vertical colons to drop and the key to the production of author considers and the result of the production of enteroptions and the rational point for its correcterior to the production of the correc-

The operation consists in anchoring the vertical colons by obliterating their mesocolons. Running stuties are inserted, beginning at the edge of the bowel. To insure efficiency they must include all febrous Jaszculi in the mesocolon, which are abund

ant at its upper extremity in these cases and the perinephritic and lumbar fascias posteriorly. Liduc relaxations of the transverse colon, abdomnal wall cit. are then treated by pexies, plications, omento-suspension, etc.

In six cases all show complete symptomatic cure and perfect retention of the colon at the present time

LIVER, PANCREAS, AND SPLEEN

elliström Spontaneous Recovery from Acute Suppurative Hepatitis Following Appendicitis (Aur Spontaneilung der akuten eitnem Hepati is nach Appendettis) Beiter Eine Cer, Just No. 1 by Surg Genre & Or.

In final abscesses of the liver, because they are usually solitary allow of a better progrous than those which are secondary to infections of the bie tracts or appendicutes. The latter variety has ren erally been corsi fered a fatal complication and it was thought that there was no possibility of recovery without the aid of an operation unless fortunately there was a spontaneous evacuation by way of a bronches or arte the stomach or bowel or through the skin. These abscesses are rarely solitary, but generally routuple which minimizes the possibility of a spontaneous evacuation. However expenence has taught a number of observers that the progress in this class of cases is not necessarily so grave, and that cases of multiple abscesses not infrequently recover apontaneously. This has been the expenence of Kerte Langenbuch Sonnenburg. Munne kells fones and others. Huberto the reports in the literature of multiple liver abscesses showed

that they almost invariably terminated fatally Hellstrom desires to add his experience and opin ion and agrees with the authors before mentioned that the prognous is not of necessity such a bad one in cases of multiple abscess formation. He cites a number of cases from the literature, and adds several cases of his own which recovered. In some instances an exploratery laparotomy had made the diagnosis positive and yet the nationts recovered without any attempt having been maile to evacuate the abscesses This contribution establishes beyond dispute the fact that cases of multiple abscesses of the liver are by no means as fatal as was formerly thought and that such cases not infrequently recover spontaneously without being operated This is vorable termination is the result of a dimin tshing virulence and tinal death of the pus organisms with subsequent inspissation of the focus. All that is finally left is a mass of scar tissue a fact which has been abundantly confirmed on the autopsy WILLIAM HESTET

Nesselrode The Acute Appendicular Liver Kensas M Sec., 1912, 20 461

B) Surg , Gyner & Ohst In this article the author chooses to classify those cases of chronic low grade biliary infections result mg in galatones, complicating thronic appendictins as "the chronic appendicular here," and under the head of "the acute appendicular here," and under the head of "the acute appendicular here." He discusses coute texts hepatitis and supportine frequents or thrombophlebitis of the portal vicin, and reports two thrombophlebitis of the portal vicin, and reports two of his cases. One is a typical tous hepatitis complicating acute appendictits which cleared up promptly following appendictionsy, the other, a cuse of multiple abscess of liver complicating acute appendictits. The second case died and the authory includes a follows

It is well to remember that both these types of hepitic infections are always consecutive to the acute phase of appendicitis The first usually has its onset during the second third or fourth day of the attack, the second, anywhere from the fourth to the tenth day In either case there is time, if the attack is recognized early for surgery to intervene and save the liver such an attack. Hepatic infection is one of the most terrible complications of appendicitis and if these cases are to be saved the appendix must be removed before such an in fection takes place for we are powerless to avert the evil once it has established itself. I very practi tioner of medicine should have this danger thorough ly in his mind before he advises any patient to await an interval operation for appendicitis

Norris, Talley, and Carr. Solitary Cysts of the Liver. Trans South Surg & Gyme 123 Dec, 1912 By Surg Gynee & Obst

Under this topic Nortis reviewed the literature of these cysts and reported a case. Talley also reported a case, which was that of a large cyst of the uterus and reviewed the literature, on the subject Carr described an operation for flat foot which was the result of traumatism. I S Talbor JR

Lapage: Primary Carcinoma of the Liver in a Boy Aged Six Years. Proc Roy Soc M, 1912 vi 45 By Surg Gynec & Obst

The enlargement of the liver was first noticed after an airse, of scarlet lever with nephritis. The liver was enlarged and showed several rounded prominences. The abdominal veries were enlarged and there was ascites, no jounded: At post mortem the liver weighed six pounds. There was metastasis in the lung.

Langmead Congenital Adenoma of the Liver. Proc Roy Soc M , 1912, vi 46 By Surg , Gynec & Obst

This occurred in a baby five weeks of age who died in convulsions. There were no symptoms previous to this time. The liver was found slightly enlarged and fatty, and eight pearly white tumors were discovered. They were clearly defined but not en capsulated. The largest was the size of a marble Capsulated.

LePt 19 and Ameuille. Experimental Researches on the Rel 1100 Between the Liver, Spieen and Omentum (Recherches expérimentales sur quelques relations entre le fore, la rate et le grand fupiloon) Cempt rend d l Soc d Bul, 1913, 2111 659 By Journal de Chrurgie

The authors give the results of their researches on certain relations between the liver, spleen and omentum. To show these relations they have per-

formed a series of experiments

Series 1. The pedicle of the spleen was ligated. while the omentum was left intact Careful observations in experiments on animals showed that, after The spleen, first losing weight, this was regained after as hours presented accretic lesions, but at the end of 20 days these were replaced by gravish diffluent masses, while the great omentum, encorced with blood was the seat of an intense diapedesis which perhaps favored the splenic autolysis terations in the liver only began at the end of 8 days and were completed after a weeks. They consisted of a perforative hepatic congestion, of nodular infiltration of lymphocytes and macrophages in the portal spaces and of little hamorrhagic interstitial suffusions which were perhaps according to the authors products of autolytic origin

Series 2 Splenic ligature with resection of the great omentum. In animal experiments, marked loss of weight occurred and death followed in 25 to 35 days. The spleen rapidly presented autolytic phenomena. It the end of three weeks the liver was the seat of currhoute known propressing toward.

organization

Series 3 The spleen alone was extripated. In this series no modification of the liver was observed, except for a slight periportal infiltration. The bile was very poor in pigments. Series 4. Insections of splenic extract. Under

Series 4 Injections of splenic extract. Under the influence of repeated injections large splenocystic cells filled with iron pigment appeared at the end of six weeks. The splenic capillaries were gorged with blood. The splenic was very congested and hypertrophied.

The effects produced on the liver were analogous to those that are observed after ligation of the splenic pedicle with resection of the omentum

The authors conclude that the spleen, by the products of its cytolysis obtained by autholysis, or by the method of extracts, exerts with the liver a mainlest influence which produced a rection in the connective tissue. This influence is more or less funted, if the great omentum is intact through the defensive auton which this organ exerts in the abdominal cavity.

PIERE CREST

Leriche and Cotte. Cholecystectomy in the Acute Stage of Cholecystitis (De ia cholecystectome à chaud dans les cholécystites aigués calculeuses) Rer d Chu, 1912 xlv, 859

By Journal de Chirutgie

The same arguments which are used in favor of appendectomy during the acute stage of appendicitis may, according to the authors, he advanced to warrant cholecystectumy in acute cholecystitis

Various forms of tholecystitus cust. In suppurative cholecystitus the walls of the gall binder are thickened and are often adherent to neighboring viscers while iderations (such as are most common about a calculus in the cystic duct) lead to dinger of perforation. Il Hamorrhing cholecystitus is char acterized by a sangunous infiltration of the wall. The phlegmonous form is woustly, a sequent of an acute cholecystitis in which expectant treatment his been followed. The gargerous variety appriently depends here, as elsewhere, upon the virulence of the infection.

In well-determined gallstone cases the appearance of signs of localized infection accompanied by pertional traction is a positive indication for operation. There is everything to goin here by operation, for though some cases of acute cholers within may get all under medical treatment the delay tapwers well under medical treatment the delay tapwers all under medical treatment the delay tapwers believing the proposed of the delay tapwers and under medical treatment and the delay tapwers believing hilling the proposed of the delay tapwers believe the proposed of the delay tapwers believe the delay tapwers and septembers are the supportant and septembers.

ticamias of virying gravits

The authors consider that cholecystectomy is greatly to be preferred to cholecystostomy Ibe latter often haves an infected area with ulcerations which may perforate even after the operation This operation therefore, is only to be performed in cases where cholecystectoms proves impossible Cholecystectomy is the more easily carried out, the earlier the operation is undertaken If the gall bladder region is free from adhesions the cystic duct is first severed and the gall bladder removed by dissection starting at the outlet and proceeding toward the fundus But if there is a local peritoritis the adhesions may necessitate the reverse of this procedure Lenche and Cotte have added 30 per son il cases of cholelithinsis to those collected in the statistics of Korte Kummel Libenthal Draun Trendelenburg and Plofeneister In these to cases there were 7 of acute cholecystitis Six were operated All wate cured 1 OKINCENC in the acute stage

Johnsson Billary Perliepatitis, with Effusion of Bile into the Perlioned Cavity Without Perforation of the Bill ry Tract (Contribution a 16ude de la perliépatite bileuse avec épanche ment bilaire dans le périone sans perforation de l'appareil bilaire) Res d'Chr. 1912 xiv. 892 By Journal de Chrurges

Since Clairmont and Haberer reported the first case, in 1910, it has been experimentally demon strated that effusions of bile into the pertonent cavity may occur without perforation of the biliary trait. Three new cases have since been reported, one by Schievelbein and two by Doherauer.

Johansson reports a case of a woman 76 years old in all health, who in January, 1912, had a sever attrack of abdomnal pain localized chiefly on the right sule. The diagnosis of appendictits was made. There was a history of a similar attack a year earlier. At operation, the peritoneal tissues

were found to be yellow in color, and when the peritoneum was incised a moderate quantity of the fluid of yellowish tint was found throughout the fluid of yellowish tint was found throughout the highest and bild durt showed no sign of perforation. Cholecy sectomy was performed. The patient does not be sign to the perforation was confirmed. The patient considers that alteration of the wall of the gall bladder by infection, and perhaps the chrenal composition of the bile are factors in the production of this transa dation. Journal of the perforation was confirmed.

Fowler Inflammatory Hyperplasia of the Spicen Am J Surg., 1912, 1211, 417 By Surg. Gynec & Obst.

This paper is limited to primary by perphasic of the spheri amenable to suprical treatment. It includes the ideopathic enlargements of spheric amenatic young market you become production and primary spheromeguly. Bant first described the condition. It is understood that Banta's disease is that form of spheric enlargement associated with crimbon's acutes and journalize.

Inflammatory hyperplasia is diffuse or nodular Three types are distinguished. The ordinary type represents the enlargements grouped climically under selence anxima. Intermediate types are the Gaucher fendothelial type and the nodular hyperplasia cher fendothelial type and the nodular hyperplasia cherical properties of the properties of the fention. In the host type. Banti draws attention to the thickening of the reticulum and to endophle bits of the epitem portal and mecenteric veins.

Splenomegaly of the endothulal type was first described by Saucher under the title of 'primary epithelioma of the spleen." The essential feature is the transformation of the spleen garanthyma into spixes arranged in an alveolar manner containing large cells possessing a peculiar morphology. The liver and lymphatic glands may show a similar theory of the control of the property of the property of the control of the cells under consideration are of connective uses and not republish or grant.

Regarding the pythogenesis of the endothelial type "Mlagenhadre maintained that there was no resemblance between the proliferated cells and the endothelia of the vascular sauses. He attributes the condition to the proliferation of retucular tissue in the hamaleopietic organs and regards at a systemic involving the Nmphatic and blood form in organs and due to an unknown but probably on the probably the probably the probably and the probably the prob

In the gross the nodular hyperplasia exhibits more marked neoplastic properties. It is particular by with the endothelial type of sarcoma that this class has been confused.

Council Primary Sarcoma of the Spleen Ann Surg., Phila, 1913, Ivi, 915 By Surg. Gynec & Obst.

This case makes a total of five cases of sarcoma of the spicen to be found in the literature since the

report in 1004 of 32 cases Of the 16 splenectomies and one enucleation, pain is mentioned in only 8 and a tumor described in 15 Injury as a possible etiological factor is recorded in only 3 instances and malaria in only 2 Blood findings are generally considered to be non diagnostic

Classification One endothelial surcoma or round cell sarcoma, one large cell sarcoma one mixed cell sarcoma, two fibrosarcomata, five lymphosarcomata,

and six round cell sarcomata

After the enucleation, this patient lived seven days After spienectomies, in the other recorded cases 3 died early 5 died of recurrence after in-definite periods and 7 were well after periods vary ing from four months to six and a half years

A mixed cell surcoma of the spleen occurred in the service of Dr Hugh H Trout in 1911 in a man of 58, who for ten or twelve years had suffered severe attacks of abdominal pun There was a maternal history of carcinoma The patient gave a lifelong history of alcoholism and morphinism He had had a traumatism of the abdominal wall with severe pain years ago Emaciation peripheral arteriosclerosis, and a mass in the left hypochondrium W B C 20 200, differential non indicative. The spleen was practically replaced by a growth of 600 gm, which was removed and a mixed cell surcoma was found upon examination. An uneventful convalescence followed, with a gain of 35 pounds in

Charrier and Bardon Splenectomy for Laceration of the Spleen (Une splenectomie pour dechi rure de la rate) Arch prov de Chir 1912 XXI 680 By Journal de Chirurgie

Charner and Bardon report the case of a young man of 18 years who was brought into the hospital 16 hours after an accident in which a wagon wheel had passed over his abdomen. He complained of pain on the left side of the abdomen and great thirst He had not vomited and urination was normal On examination he was found to be very pale and dyennæie, pulse 140 temperature 048° abdomen was tense rigid and painful throughout but more markedly so on the left side abdominal tympany had encroached on the hepatic dullness There was some dullness in the iliac region A median epigastric incision was made, and upon opening the peritoneum a large quantity of blood and clots gushed out followed by the distended stomach and intestinal loops intestinal tract was normal but the spleen was found to be lacerated A second incision at right angles to the first was now made extending from the mid line to the left costal margin Splenectomy proved difficult because of the extreme intestinal distention The pedicle was ligated drainage instituted and the incisions closed with through and through silver wire sutures The post operative condition was very alarming, and it was necessary to use injections of serum, camphorated oil spartein and strychnin to combat shock Recovery followed

This was the twenty fifth case of splenectomy for rupture of a normal spleen which had been per formed in I rance The authors believe that splenectomy in this condition must remain the treatment of choice in cases of severe laceration where repair is not possible GFORCES LABRY

Gwathmey Pancreatic Costs. Trans South Sure & Gynec Ass , Dec , 1912

By Surg , Gynec & Obst Guathmes reported a case of cast of the pancreas. and said the fluid content from the large cyst showed considerable detritus a few degenerated epithelial cells and leucocytes, but no cholesterin crystals The small cyst showed a few degenerated epithebal cells Attempts to cultivate the organism from the cyst contents were futile The cyst presented one or two interesting features. The fluid in the large cyst was entirely different from that in the smaller cysts, the difference being due to a hamorrhage or hæmorrhages that took place in the large cyst The smaller cysts were lined with epithelium, while in the large cost not a vestige of epithebum could be found. The large cyst was evidently lined with epithelium but this epithelium must have suffered autodigestion A hamorrhage or hamorrhages took place in the large cyst, which caused the difference in the cyst contents and which produced some trauma to the epithelium of the cyst wall, thereby allowing the ferments in the cyst contents to digest the epithelial lining

So lax was the abdominal wall after the removal of the tumor that the appendix was removed without difficulty through the same incision It contained an extremely large appendolith in the tip and was actively inflamed. Old and fresh adhesions in the pelvis were broken up adherent coils of small intestine removed from the cul de sac and sigmoid properly placed in the pelvis The kidneys, liver, gall bladder and ducts the pancreatic head, and other abdominal organs were found normal wound was closed without drainage vulescence was smooth and uneventful, and the patient left the hospital in nineteen days to go to her home in Chicago A recent letter six months since her operation reported her in excellent health

Hall said that several years ago he reported to the association an operation for pancreatic cyst. In that case the cyst evidently arose from trauma The man was lifting and injured himself He came to be operated upon five or six months after injury, with an enormous tumor in his abdomen which held more than two and a half gallons of fluid He simply drained the cyst and stitched it to the abdominal wall The man died from inanition the seventeenth day after the operation E S TALBOT IR

MISCELLANEOUS

Kanavel. The Abdominal Crisis. Illinois M J By Surg , Gynec & Obst The author urges the advisability of grouping the acute abdominal diseases into two classes, one medical and the other surgical, and basing the treatment upon this diagnosis rather than waiting for the specific diagnosis of appendicitis, intestinal obstruction, etc. He draws attention to the fact that in the early hours the surgical conditions are all characterized by the same signs and symptoms. as follows First, sudden excruciating pain in some part of the abdomen, second, nausea and vomiting, third, rigidity of one or both sides of the abdominal wall, fourth, tenderness at least relatively localized If all these are present a positive diagnosis may be made, while a probable diagnosis may be made upon any three if the character of their onset and their course are investigated discriminatingly

The author then discusses each of these symptoms in detail It is suggested that this group of signs and symptoms should be held to indicate a clinical entity and enable the surgeon to operate under the diagnosis of an acute surgical abdominal crisis, without waiting for the specific diagnosis as to which or gan is affected, to the end that early operation may be performed, and consequently many lives saved

SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS, ETC.

Ponomareff. The Treatment of Infected Injuries of the knee Joint with Bier's Hyperæmia, Beitr & klin Chir , 1912, lxxxii, 131

By Surg , Gynec & Obst

Many methods of treatment have been advocated for injuries of the knee joint complicated by infection Among these may be mentioned incision with the introduction of antiseptics, aspiration and injection, drainage, and even resection Favorable results from the use of Bier s hyperæmia in suppura tions of the knee joint have been reported by several observers Ponomareft reports 54 cases of injured knee joints which he divides into three groups. The first group includes four cases with perforation of the joint but without symptoms. The second in cludes all cases accompanied by severe pain in some of which the presence of an exudate could be deter mined in the joint The third embraces the severest cases, with a large exudate, marked sensitiveness and disturbance of function

The character of the infection was determined by examining the wound secretion or puncturing the The staphylococcus aureus was the most common organism present Occasionally the streptococcus was found. In all cases with marked symptoms of joint infection, passive hyperamia was used therapeutically A Martin's rubber binder was applied to the upper part of the thigh for 18 to 20 hours daily and after removal the leg was elevated Tamponade or drainage was avoided wherever possible Only when a suppurative arthritis was present was the joint cavity drained. The wound in each case was cleansed with alcohol and painted with tincture of iodine and a dry aseptic bandage applied Sounding or probing the wound to find if it extended into the joint was discarded as a dangerous procedure

In Group 1, 2 cases were healed by hyperæmia and immobilization. In one case immobilization alone gave the same result. In another case suppuration developed after immobilization, and tamponade and ankylosis was the end result

In Group 2, immobilization and hyperæmia resulted in a complete cure in 7 cases In 4 cases slight restriction of motion remained. Nine cases were cured by immobilization alone. One case

died of sensis In Group 3, 12 cases were treated with hyper armia and immobilization. Five had complete restoration of function, 3 had restricted motion in

the joint, a resulted in ankylosis, and a ended fatally In all cases in which passive hyperamia did not give good results, the limb was immobilized, the joint was opened, and the intra-articular as well as the pen articular pus was evacuated "

Ponomareff concludes that passive hyperæmia

according to Bier's method is not sufficient in itself in the treatment of injuries of the knee joint. Every case in which suppuration sets in should be treated by immobilization alone or in conjunction with hyperamia When hyperamia is used the opening of the joint and the incision of periarticular ab scesses should not be neglected Passive movements are used only when the inflammatory phenomena have subsided Especial care is necessary, when long continued perjarticular suppurations have been overcome Too early application of passive movements frequently leads to an exacerbation of the ERWIN P ZEISLER infection

Stumm Multiple Myeloma Surg Gynee & Obst,

The rather rare condition of multiple myeloma is discussed in this paper and two very typical cases are reported at some length both clinically and nathologically. It is noted from a study of these cases as well as the cases reported in literature, that the individual cells are fairly uniform in appear ance and as is quoted from Christian the "individnal cases show no greater variation than occurs in other tumor growths "

The nature of the cells is not known though there has been a great deal of study and controversy regarding it Some regard them as a bone marrow plasma cell others as a myelocyte and some again as crythroblastic in origin. The gross appearance of the bone is rather characteristic, though a great many other pathologic bone conditions have been confused with that of multiple myeloma The ribs, sternum, vertebræ, and less frequently the skull

and some other bones, are involved. Tumor masses may or may not be present The bones become very brittle, there being a thin crust of bony substance remaining externally which is easily crushed, internally the substance is yellowish gray or reddish gray in color Frequently this is mottled, the areas varying in size from a split pea to a dollar Usually there are very many thin walled blood vessels, with only an endothelial layer present A very fine reticular fibrous framework is present. In many of the cases there is a peculiar substance present in the urine known as the Bence Jones body This is not constant and when it is found is not absolutely pathognomonic, though its presence is always extremely suspicious

The author did not recognize clinically the first case reported never having before seen the condition, and it was only by study of the pathologic condition that he was able to identify the nature of it. The second case was readily recognized clinically, and he is of the opinion that once having had the ordation in much with a fartly clear paders and the condition in the condition of the difficult of clinical recognition.

Haun: The Treatment of Phlegmon of the Upper
Extremity (Ueber Phlegmonen behandlung der
oberen Extremutät)
München med Hiehnschr
1912 lix, No 53
By Surg , Gynec & Obst

Instead of a circumcison of the upper extremity proximal to the philegmon, as advised by Nosske the author recommends a method which has given him good results for 15 years. Proximal to the philegmon, there to five longitudinal and parallel microsists, 50 mole incasson to the other is blumly undermined, and under these bridges of skin nodoform wicks are inserted. In this way a broad ring is established in which the lymph vessels are open and in which the blumpon never transgresses. A thick ring of belgmon never transgresses. A thick ring of the control of

FRACTURES AND DISLOCATIONS

Jones: Present Position of Treatment of Fractures Brit M J 1912 II 1589

By Surg Gynec & Obst

Jones states that, as an orthopedic surgeon, he has been led to regard fractures as potential deform tites, and in many instances his treatment is modified from the accepted methods to anticipate and prevent subsequent impairment of function. In other tasse he lays stress on certain measures of the treatment. In a small minority of fractures that the strength of the strength of the strength of the certain properties. The strength of the secured has dead to the secured by the most primitive faces, and the subscript of the strength of the

there be overlapping of the fragments. He designates angular deformities as a disgrace to surgery the question of extension by weight and pulley is discussed. In his hands steady extension by the use of the Thomas here spint has overcome shortening and has lined up fragments in femur cases where it had seemed impossible.

The author's paper is partly taken up with a discussion of the report on fractures by the Birth Mehral Association. In speaking of the bad results following Piet's fracture he emphasizes the necessity of overcoming well the valgoid tendency and the essential after tentiment by aid of an outside to essential after tentiment by aid of an outside to the sole of the shoe. Fractures of the elbow sholl be treated by acute flexion. The general tone of the paper is to encourage surgeons to mechanical ingenuity in the treatment of fractures, as a result of which fewer operations will be necessary.

M S HENDERSON

Caldwell Fractures into and about Joints.

Trans South Surg & Gynec Ass, Dec, 1912

By Surg Gynec & Obst

In this paper, Caldwell stated that the subject of fractures was too perfunctorly taught. A clearer understanding of their nature and complications would bring about better results and obviate many law suits. Fractures into and about points required more discriminating diagnosis and treatment than the average fracture of the shafts of long bones. Crepitus was valuable, and its absence significant. Perfect apposition of fragments was of more consequence in procumity to joints.

The author considered fractures about the shouler and said that fractures of the anatomical neck were rare. In fracture dislocations, there was necessity for the removal of the head where reduction could not be accomplished. He pointed out the indications for operation, as well as continuingations, in fractures of the surgical neck. He hierarchical the following the surgical neck. He have a former than the surgical neck. He have a former than the surgical neck. He have a former than the surgical neck. He have the surgical neck of the surgical neck. He have the surgical neck of the surgical

In discussion, Winslow reported that he had had a number of cases of fracture of the surgical neck of the humerus, and he had found it impossible in some cases to effect reduction until the arm was drawn into a position of extension and the bones held together by means of screws, and he had had some good results by that method

Law stated that in the University of Minnesota they had a different procedure from that mentioned, and their results had been different from those rated by Winslow. They resorted to the treatment suggested by Maxwell and Ruth in old people, the term that the trained is the state of the stat

had functionating joints and union by following the Maxwell-Ruth method This method in old people was attended with uniformly good results

Morris said that in cases in which we did not wish to do an open operation we could often, in selected cases, do a simple operation. First, put the limb behind the fluoroscope Second, run a narrowbladed knife down near the fracture Third, put in Fourth run a doll through the cannula, and transfix both fragments Fifth, run in a silver pin and leave it there, taking everything else out One could pin a whole lot of fractures behind the fluoroscope with the patients under the influence of This method did away with the disadvan tage of keeping these patients in bed. In many cases of fractures in joints, one could put in a pin and do a simple operation E S TALBOY IR

Pretoff Fracture of the Lower Fnd of the Radius in Children (Les fractures de l'extrémité inférieure du radius chez l'enfant) Ret mél d i Smiss Romande, 1911 XXII, 729 By Journal de Chirurgie

Mme Pretoff reports 14 cases of Iracture of the lower end of the radius in children in Vullet is clinic. Her conclusions are as follows: This fracture is not at all rare in children and while not as typical as the same fracture in adults it still shows sufficiently well marked characteristics to ment description. Mme Pretoff claims that contrary to what has use ally been held, the line of fracture very rarely follows the epophyseal line: The prognosis is always good.

McCurdy: New Transpelvic Lines for Determining Displacement at the Hip Internal J Surr., 1912 xxx 373 By Surg., Gynec & Obst

McCurdy questioning the accuracy of Nelaton's line in locating the trochanter, describes and illustrates a transpelvic line that crosses the pelvis through the spines of the pubic bones at right angles to the median line the umbilious serving as the vertical of the triangle. This line extends outward across the hip joints, passing over or above the trochanteric eminences where the heads of the femurs are in the acetabulum and no fracture of the neck or displacements of the femur exist. He has examined several hundred patients by this new method, and was able to decide almost instantly whether displacement at the hip joint existed. The method is easily applied to patients of all ages, particularly so when the patient is lying on the back, a position in which Nelaton's line is not so readily applied In order to verify the conclusion found by his method as described, a tape measure, ruler or string is passed over the pelvis so that the ends pass the trochanteric eminences and are held in this position by the assistant, or a line may be made across the abdomen from one trochanter to the other Care must be taken that the most prominent points of the trochanter are found. The anterior superior iliac spines are now located and marked or a line may be made across the pelvis over the spines

if desired If these lines are parallel, no displacement at the hip joint occurs If, however, the lines converge, displacement of some sort will be found on the side where they are closer. The amount of displacement is now determined from the spines to the point from the trochanteric line immediately He points out that in every case where measurements are made without regard to the angle of the femur to the pelvis, error must follow. The amount depends entirely upon the amount of flexion and adduction or other angular variations. In a study on disarticulated skeletons he finds that the relationship existing between the femur and pelvis makes it possible to increase the distance from the anterior superior spine to the internal condule two inches while the arch through which the femur passes is no greater than that found in many cases of deformity at this joint. He then outlines his methods H B THOMAS

Shands Treatment of Fractures of the Shaft of the Femur & a If Semi Monthly 1912 XVII, 445

By Surg , Gynec & Obst The author is fully convinced that very few cases, if any should recover with shortened limbs now that the X ray can show accurately whether the fracture has been reduced. The surgeon should never be satisfied until the fragments of bone have been re placed in the position in which they were before the fracture The author uses a traction apparatus with the patient under ether to reduce the fracture and while the truction is maintained a plaster of Paris spica extended from the nipples to the toes is applied If the \ ray shows after this has been done that the fragments of bone are not in a perfectly satisfactory position an open operation is done and the bones are anchored in the best possible position The author's experience has been that about one case in four has to be operated on. He has practiced this method to the exclusion of all others for the past 18 years with perfectly satisfactory results

method is as applicable to children as to adults. The author has found that patients treated in this way are far more comfortable than in any extension or trution apparatus as they can be handled with perfect comfort and be removed to a rolling chart, children even get about well on crutches without harm.

Estes Report of the Commission of the Medical Society of Pennsylvania on End Results of Fractures of the Femur Internal J. Surg. 1912, xtv. 382 By Sur., Gynec & Obst

The report of Istes charman of the committee, considers the total number of 385 cases with reference to age occuption cause seat and kind of fracture amount of shortening method of treat ment etc. and concludes that an analysis of the cases that that the greatest and payed to the cases that that the greatest and payed to the case that the greatest and payed to the case that the greatest and payed to the case that the greatest payed to the case of the case of

Working people are far more subject to these fractures than any other class, and indirect violence causes about tive times as many cases as direct violence. He contends that the open method cannot be recommended as a routine practice, and that it should never be used exceet by men who are thoroughly qualified and with proper surroundings - surroundings where the proper instruments may be had and where the proper operating room facili ties and training will insure thorough asentic tech move. He believes that the complete reports serve to indicate that this most important fracture and serious injury, in hospitals at least does not receive the attention of the chief surgeon treatment being delegated to the interne stall lie recommends the proper use of the X ray and believes truction is most commonly employed The results of such treatment in most instances enable the patient to resume his occupation and function without serious detriment although absolute apposition and restoration of the proper axis of the bone are very seldom accomplished Deaths from simple fractures of the femur are noted in 3 bo per cent of the cases The renorts show that they occur almost wholly in cases of old are from shock and exhaustion from pneumonia or from some operative interference. He thinks it is evident that the open method itself introduces into the treatment of these cases such a marked element of danger that it cannot be recommended for general use nor recognized as a routine practice everything else, the method must be adapted to the case and not the case to the method

Although he considers plaster of Paris a valuable means of treating these fractures he believes it should be applied only under anæsthesia and believes the results may be considered good if the measurements show no more than an inch of short ening providing there is no inversion or eversion of the foot from angulation of the fragments

II B TROVAS

Novel Old Dislocations of the Semilunar Bone lDes luxations anciennes du semi luntire) Thèse de Paris, 1912, Nov By Journal de Chirurgie A dislocation is old when the anatomical changes

have become such that the ordinary procedures for reduction fail or are contraindicated and this an pears to Nouel to be from three weeks to one month after the traumatism

The author fully agrees with the theory of Delbet and, after reviewing the pathological anatomy of recent dislocations, reports two new observations with radiographs In the first case the radius was dislocated behind the semilunar while in the other there was a dislocation accompanied by enucleation of the semilunar

He also analyses the more complex forms of dis locations, such as that complicated by dislocation of the scaphoid or with displacement of the semilunar backward (case of Gouilloud of Durand) or with fracture of the scaphoid fracture of the radius or the cubitus.

In old dislocations the cartilag nous end of the radius frequently shows erosions which may be due to friction or rough irregular fragments of the fractured scaphoid The styloid of the radius forced outward often shows an irregular surface finely

mamelonated or covered partially by fibrous tissue There is often lack of solidification of fractured bones, they are never firmly knitted and require several months to heal. Sometimes there is an obnormal union between the radius and a carnal bone, giving rise to an ankylosis The author calls attention to a tranmatic esteetrophy where the de-This coincides with the calcification is intense. This coincides with the description by Mocquot of osscous neoformations

and hyperostoses

The cut and torn beaments form a mass of fibrous tissue poorly differentiated, covering the semilunar and interposed between the bones, and uniting with them to form a fibrosseous mass which gives a shadow on the X ray plate. The ends of the carnal bones and the semilunar are shortened nuded articular surfaces are diminished in extent The nerves may be raised and flattened by a

dislocation of the semilunar forward, and may subsequently give rise to a mild neuritis. The nerves may be compressed by a collar of connective tissue

In simple dislocations in which the semilunar is not enucleated there is a thickening of the wrist antero posteriorly, lower than in fracture of the lower end of the radius The altered position of the scanhold and semilunar may be felt by palpation When the semilunar is enucleated it is easily felt under the skin the antero posterior thickening is less marked but the lateral displacement is often greater. The flexor tendons are raised and stretched over the ridge formed by the semilunar, which moves under the inger like a marble. A hard raised lump is constant Motion of the hand is limited, with marked decrease in the grasp of the hand pression of the nerves is so common that it is almost a symptom the median is most often involved and sometimes the ulna I requently there is a neuritis with lancinating pains or changes in sensibility. at times complete anasthesia or motor symptoms, contractures, or trophic changes

In dislocations complicated by fracture of the scaphoid the anatomical snuffbox is filled by the scaphoid dislocated backward There is a swelling of the region which prolongs the radial gutter under the heel of the hand between the long abductor of the thumb and the palmaris longus

Old fractures are easily deignosed, and it is bardly possible to confuse them with sprains dislocations of carpals fractures of the radius or isolated fractures of the scaphoid A rays should always be

The indications for operation, according to the author are almost absolute The method of choice is extirpation of the semilunar with the fragment of the scaphoid, if this is fractured, through a frontal incision The results are excellent depends upon concomitant lesions of the carpal. especially traumitic osteo arthritis and osteitis rateficians when a resection should be done. This is, however very rare. L. Capatia

SURGERY OF THE BONES, IGINTS, ETC.

Fay: Transplantation of the libula at the Resection of long Bones (La transplantation restaurative du péroné après les résets us des os longs da ment re supériour pour outé-sacreme). This de Paris juix Nos. Ily Journal de Chronge

Ly Ixous conservative treatment of outerstream. He quotes the work of Gangolphe and his followers and of Huguer and agrees with them as to the advantages of persosteal resection in amputations and distributions. He discusses the indication furnished by the site and character of the tumor, and the condition of the neighboring tixtues.

The reconstitution of continuity after resection is best accomplished according to the author by means of an autoplastic osseous graft. This is the nurckest and simplest method it is always possible of accomplishment and gives the best results fibula offers the advantages of an easily accessible long bone of sufficient schicks which may be removed whole hence with intact marrow and periosteal covering without its loss causing any serious consequences If at least 6 cm of the lower end of the hone remain the only effect of the removal of the upper portion is a slight refusation of the tibio tarsal articulation which is easily remedied by suitable ankle support. Whatever may be the histological charges occurring in the transplanted hone the chrical results show plainly that it satisfactorily fulfills its mechanical function of surport

The author describes the technique used by Gangolphe in the reserts n of the different bones of the upper extremities in cases of osteosarcoma He lays stress upon the necessats of removing the tumor the adjacent tissues and any parts which appear involved in one single piece. The excision of the tibula is carried out after the resection of the neoplasm The length of the graft must be longer than that of the resected fragment and it should be taken from the mildle portion of the tibula vertical increson is made which lay a bare the peroneal muscles These are then dissected off the bone care being taken not to graze the latter resection probe is then pushed behind the bone through the interesseous membrane and a Gigli saw then placed in position. Mer section of the bone the interesseous membrane is incised and the inser tions of the posterior muscle dissected off. The bone graft is wrapped in compresses moistened with warm scrum Hamostasis is carried out and the wound closed with a drain. The two ends of the bone graft are then shaped to a point with a bone forceps and the marrow casity of the resected bone walened by the use of a control burr | The ends of

the graft are then fitted into the cavities the result being a dovetailing of the graft into the defect in the resected home. In the forearm, where the medullary cavities are small, it is better to use a suture at the two ends.

If the resection involves an epiphysis, the superor articular suffere of the filtular most be included in the portion excised. In this case care must be taken to avoid damper to the external popularial nerve or its branches. The external lateral Learners and the tendino of the breips formostia are disserted off sub-periorically. After the implinitation of the grait the wound is shooted with derayare, and the limb placed in a previously prepared plaster molfed sy limit in which it remains for its weeks. Some form of external support should be used for several morthmore.

Ity stirs a case of his own. A woman of 29 can felt a sharp; pas in the mid the parties of the left humerus at a moment when the are was under strain. A few hum but she have noticed a small seelling about the are of a sugroup a erg, at this pointing about the are of a sugroup as erg, at this pointing about the are of a sugroup as erg, at this pointing the sum of the form of the same of the same of the sum of the su

tourniquet was placed about the upper portion of the arm and a vertical incision made distal to it from the lateral encordale to within 5 cm of the acromin | The radial nerve was found and retracted the brackial artery became and the median rerse were retracted medianward. Three cm above the tumor and 4 t cm below the tumor the shaft was freed from muscular insertions and sawed through The libers of the tracers were dissected off the posterior aspect a good exposure being obtained by pushing the lower fragments outward. The resected fragments which contained the tumor, and the bruchial muscle which lay on its anterior surface, were removed en bloc \segment 15 cm in length was then excised from the shaft of the fibula and descrated into the defect in the humerus. After

treatment as above. There was a complete radial paralysis of seven months duration due to the fast that this nerve had been been as the control of the third been montants unmersed between the graft and the humerus. Normal healing. It he rail of seven months union was complete at the upper end of the graft but a pseudorthrouse certification of the seven of the parallel of the para

M Grangetter

ORTHOPEDIC SURGERY

DISEASES AND DEFORMITIES OF THE SPINE
Gray Certain Physical Signs in Scoliosis of

Gray Certain Physical Signs in Scoliosis of Lesser Degree. J Am M Ass, 1972, lix, 2249 By Surg, Gynec & Obst

Gray discusses the physical signs, particularly those of percussion, in cases of scoliosis outched areas are found, posteriorly, opposite the superior vertebral convexity, anteriorly, over the intraclavicular region, posteriorly below, opposite the lower vertebral convexity, and (when present) anteriorly, below, diagonally across from the supenor infraclavicular area With scoliosis minus actual ling disease the high nitched areas are quite constant Limited or absent downward excursion of the lung is found on the side opposite the upper verte brel convexity Early tuberculous consolidation usually presents an area of dullness in front as well as behind on the same side, this it not true of the scoliotic phenomena L G DWAS

Strong: Eight Cases of Osteomyelitis of the Spine. Lancel, Lond , 1912 clyvnii 1516 By Surg Gynec & Obst

The disease is rare, but more common than is generally believed Of the 8 cases reported, in one the arches of the vertebræ were the seat of the disease, whereas in all the others the bodies were attacked The prognosis is naturally better in the former cases Mortality varies in different statistics from 57 to 71 per cent. Of the 8 cases 7 died in several of which some complication was the actual cause of death. The symptoms are very similar to those of Pott's disease The actual cause of osteo myelitis of the spine is as in other bones usually the staphylococcus aureus. As to the predisposing causes, a history of injury is common, other predis posing causes given are cold and fatigue antecedent infections, and puerperal infection As regards treatment, there is no doubt that in immediate operation hes the only hope of saving life, except, perhaps, in typhoid cases Makins and Abbott advise the opening of abscesses and the removal of necrosed bone Kermisson urges that the bone itself should be left alone. He refers to the close resemblance that many of the cases bear to Pott s disease, indeed several were actually diagnosed as such With a little more care it should be possible to distinguish the two diseases in nearly every case The abscess of Pott s disease most often ap pears externally in Petit's triangle and is roundish whereas the abscess of osteomyelitis spreads along the vertebral column and is fusiform and oblong Especially important are evidences of secondary circulation in the skin around the abscess, owing to septic thrombosis in the spinal veins

DOVALD C BALFOLR

Tournier and Ducuing. Indications in Cases of Spina Bifida in the New-Born (De la conduite à tent chez le nouveau né attent de spina bifida) Arch ères de Chir. 1012 XX 40

By Journal de Chirurgie

The therapeutic indications vary with the anatomical variety of the spina bifids and with the presence or absence of complications, such as meningitis, hydrocephalus trophic disturbances, etc

Case I Myelomeningocele — This condition is easily recognized by the presence of three concentric zones over the surface of the tumor — the dermic, serous, and medullary — This form is always fatal, and therefore no radical treatment should be attempted.

Case 2 Wvelocystocele - In these cases there is no loss of continuity of the skin over the tumor. unless it be due to secondary ulceration. The diagnosis is to be confirmed by careful examination and, of necessary by radiography. The bony defect is resually lateral and affects only one side of the posterior vertebral arches If no complications. such as trophic disturbances ulceration or imminent cupture are present only palliative measures should he employed By means of frequently changed asentic dressings an attempt should be made to protect the tumor from traumatism and infection The authors advise against radical treatment in these cases in the first place because sometimes, even though rarely there may be spontaneous recovery thus avoiding the risks of a serious operation, and secondly, because the operation does not insure freedom from late sequelæ Complications that occur in these cases may contraindicate any interference or may demand it. In the case of a large tumor, with thin walls which threaten to rupture if there are no signs of meningitis or hydrocephalus, a radical cure should at once be attempted by incision of the sac In the case of a moderate sized tumor on whose summit an area of ulceration is present which threatens perforation the first indication is to treat the inflammatory process antiseptically Later, if rupture seems imminent, intervention may be attempted. In certain of these cases of myelocystocele rupture and fistula formation are already present when the case reaches the surgeon Here the authors advise immediate operation Finally, if marked trophic disturbances are present such as club feet, deformities, or trophic ulcers operation should be performed without hesitation for it is the only means of handling these complications and if undertaken early enough may vield good results, but if the child shows signs of meningitis or hydrocephalus the attempt is useless

Case 3 Meningocele — Contrary to the opinion of most surgeons Tournier and Ducuing do not advocate operation in all these cases. They consider that the same indications hold good here as in the

case of myelocystocele basing their opinion on the gravity of the operation GEORGES LABRY

Fillott and Sachs. Observations on Fracture of the Odontoid Process of the Axis with Intermittent Pressure Paralysis Ann Surg , Phila , 1912, Ivi, 876 By Surg , Gynec & Obst

A case is studied, clinically and after autonsy where fracture had existed for 32 years During that period there bad been frequent attacks of intermittent pressure paralysis Autopsy confirmed earlier diagnosis and X ray findings I ollowing are among the observations mentioned

(a) The fractured surface was by attrition con-

verted into a false joint - a pseudarthrosis (b) Owing to forward displacement of the

atlas the vertebral space was much restricted (c) The odontoid process was broken at the neck and carried forward with the atlas and anky

losed with same (d) Insecurity of this part of the vertebral column was noted. Owing to the formation of the

articular surfaces displacement is made easy X ray cuts drawings and photos are given At the time the patient was seen the condition of

the reflexes together with the atrophy of muscles indicated advanced secondary changes in the cord This together with marked respiratory paresis. forbade surgical interference The Mixter Osgood operation was considered but

discarded Autopsy showed that it would have failed since so much force was required to hold the atlas in place

In a similar condition the authors suggest a laminectomy - a removal of a portion of the posterior arch of the atlas At the proper stage such an operation was regarded as feasible

MALFORMATIONS AND DEFORMITIES

Greze Surgical Treatment of Rachitic Deform-Itles of the Leg (Du traitement chirurgical dans les deformations rachitiques de la jumbe) Paris 1012 Nov By Journal de Chirurgie

Greze believes that besides the usual indication for surgical intervention in rachitic deformities of the leg, the asthetic results should be taken into consideration, because of the frequency of mental disturbances arising in those left deformed. The author prefers osteotomy to osteoclasis He enters at some length into the subject of ostcotomy and concludes by claiming certain advantages for the cunciform type. I irst by this method an exact correction of a marked curvature is best obtained because the base of the bony widge can be exactly calculated to effect this result Second complete correction of the faulty rotation is obtained Third there is no loss of length because the gain due to straightening compensates for the shortening caused by the removal of the wedge. The author cites two of Veau's cases in which good results were ob tained

Werndorf The Pathology and Therapy of Congenital Dislocation of the Hip Am J Orth Surg 1912 x 243 By Surg , Gynec & Obst

Werndorf reviews briefly the history of the diagnosis of congenital luxation of the hip, and then discusses in considerable detail the pathology, etiology symptoms and treatment. The pathologic anatomy and its bearing upon the accepted theory of intrauterine pressure as the cause of the disloca tion is most clearly brought out

The symptomatology is also described with relation to the pathologic anatomy, and the clinical Dicture thus drawn is very clear. The differential diagnosis between congenital and traumatic dislorations is sharply made from the indifferent position of

the one and the definite and fixed position of the other

The treatment described by the author is the bloodless reduction method as practiced by Lorenz with tearing of all the muscles and tissues on the adductor side of the thigh until extreme abduction at right angles is possible. Then, by rotation inward and pressure upward below the trochanter, the femoral head is made to pass over the acetabular rim The author explains that reduction may take place over the upper, the posterior or the lower border of the acetabulum and the technique varies slightly with the point chosen for reduction to take place

The method of retaining the head in the socket is by abduction with night angled flexion and out ward rotation, and fixation in this position in plaster

The socket is often so shallow that the stability of the joint is poor and emphasis is laid upon the importance of weight bearing or walking with the thigh fixed in the cast, so as to deepen and develop the acetabulum by pressure

The novice is cautioned against the accidents incidental to reduction in these cases, such as frac ture of the femoral neck ischiadic paralysis, and injury to the femoral vessels and for this reason he is urged not to exceed the age limits for reduction as laid down by Lorenz 1 e 6 years for double dis locations and 10 years for single

Palliative treatment is described for cases which are too old for the bloodless reduction, or where for other reasons the head cannot be retained in the acetabulum This consists in transposing the loca tion of the femoral head from its loose, movable position on the dorsum illi to a more fixed and secure position above the acetabulum under the anterior superior spine. This is done by traction after tearing the adductors and then fixing the leg in hyperextension and abduction of thirty degrees

JOHN L PORTER

SURGERY OF THE NERVOUS SYSTEM

Leriche Radicotomy in Case of Parkinson's Disease (Radicotomie dans un cas de maladii de Parkinson) Lyon méd , 1912, cxix No 52

Last year the author published (Journal de Chirurgie, vin, 543) the results of observations in a case of Parkinson's disease in which he cut the cer vical spinal roots in an endeas or to modify the rigid ity from which the patient suffered. The procedure modified the trembling characteristic of the disease but did not affect the rigidity Recently the author operated upon another patient at which time a marked hamorrhage forced him to forego the extradural operation which he had intended. How ever, he opened the dura mater and sectioned most of the fibers of the sixth seventh and eighth posterior cervical roots. On the seventh day, when the therapeutic results seemed to have been obtained and the post operative results were good, the patient suddenly died from asphyxia Temperature of 30° Leriche thinks that death was due to bulbar infection At autopsy nothing was determined

From observations made in this case the author points out two interesting facts. The action did not affect the rigidity of Parkinson * disease while teaused the tremor to disappear. There is there fore, a difference to be made in the pathogeness of these two symptoms. The therapeutic results there is the pathogeness of the pathogeness

Elsberg Some Features of the Gross Anatomy of the Spinal Gord and Nerve Roots and Their Bearing on the Symptomatology and Surgical Treatment of Spinal Disease im 1 if \$\delta_1\text{grid}_1\text{grid}_2\text{dy}_1\text{gy}_0\text{gy}_1\text{Gyptc.} & Obst

The following observations were made by the author during the last year in a number of dissections of the human spinal cord nerve roots and membranes in order to study their arrangement and relations First, the structure of the posterior roots as the explanation for the peculiarity of root symp toms at different levels. It is well known that the anterior and posterior nerve roots perforate the dural sheath separately with a thin septum of dura mater between them In the cervical region the nerve bun dles of the posterior roots remain distinct until they have passed through the dura The bundles are spread out like a fan the broadest part being at the cord and occupying a space of 1 to 2 cm of the cord In the dorsal and lumbar regions the arrangement is different from that just described. The separate bundles soon combine to form one bundle which passes outward to the dural opening as the posterior root From this arrangement it is clear that in the cervical region a tumor will for a long time make pressure upon only a few of the bundles which go to make up the posterior root. In the dorsal and lumbar regions the nerve bundles are united into one nerve in the cord, a tumor in these regions will press upon a whole nerve root from the beginning Clinical experience agrees with these anatomical

A careful dissection of the posterior roots of the spinal cord will show a marked difference in their course at different levels. In the cervical and upper doral regions the nerve bundles unite to form the posterior root and pass out of the dural sac at almost a right angle to the cord. From the eighth cervical to the mid dorsal region the cords of the posterior roots are different.

Lach root has an inclination downward until it nears the dura. It bends upward at an angle just as it perforates the dura. In the mid dorsal region this angle is often very acute—40 to 45 degrees. In the lower dorsal and lumbar regions the posterior merre roots pass downward and outward and perforate the dura. It is easy to understand, when one considers the straining angle in the posterior roots in the dorsal region, that only a slight inflammatory for the occurrence of marked root symptoms, movements of the vertebral column often intensifying or relieving symptoms.

The ligamentum denticulatum is a fibrous band which is derived from and attached to the lateral aspect of the pia mater on the cord midway between the anterior and posterior roots. On each side of the cord the ligament extends outward and is attached to the inner surface of the dura by numerous dentations or slips. It is due to this ligament that a tumor which grows on the anteriolateral or posterior lateral expect of the cord will press upon only anterior or posterior roots for a long time, and thus give only anterior or posterior roots for a long time, and thus give only anterior or posterior root symptoms before the appearance of pressure symptoms.

The dentate ligament ends below, at the level of the first lumbar vertebra, in a fork shaped extremity The outer prong of the fork is usually about 1 cm long and is attached at its end to the inner surface of the dura Sometimes this prong is 3 or 4 cm long. The inner prong of the fork is attached to the pin on the lateral aspect of the cord and is prolonged downward along the side of the conus to its tip The first lumbar posterior root rests upon this fork, and it may be used as an anatomical landmark for the identification of the first lumbar root If one begins to count from the posterior root which lies on the fork of the dentate ligament, which is the first lumbar one can easily identify each posterior root

The importance of these anatomical facts, for the operation and division of the posterior roots to the lower extremities, is clear, and the author advises that in such operation the lumbosacral cord be exposed by the removal of the lamina and spinous processes of the eleventh and twelfth dorsal, or the

eleventh and twelfth dorsal and first lumbar vertebræ. After identification of the fork of the dentate ligament no difficulty will be had in recognizing the posterior roots, as they can be easily counted beginning with the first lumbar.

Duroux: Clinical Results of Nerve Grafts (Résultats cliniques des greffes nerveuses) Lyon chir 1912 van, 562 By Journal de Chirurgie

Under the heading "Nerve Grafts" the author describes the free transplantation of a signent of a nerve which is interposed between two ends of a sectioned nerve. The transplant may be obtained from the patient binned (autogenous graft) from an another individual of the stime species (homogenous graft) or from an animal of another species (hetero-eneous graft).

In a brief resume of the historical aspect of the subject from a clinical and experimental point of view, the author points out that the first experimental nerve transplantation was performed in 1870 by Philipeaux and Vulpian who transplanted a segment of the lineual nerve of a dog into a defect of the hypoglossal The first application of this method in man is due to Albert in 1876 Since that time Kaufiman Mayo Robson Petersen Powers and Times Sherren have tried this method. The number of cases reported however is few as the author could only collect 30 2 of which were autografts 6 homografts and 22 heterografts To these he adds a new case of Jahoulay which was the first published in France. In this case the brachial vessels and the median and ulpar nerves had been severed by a stab wound on the internal aspect of the irm operation was immediately performed the arters was lighted and the nerve sucured but in spite of this suture the sensibility and motility were not re established and muscular atrophy appeared. It was most marked in the hand where it iffected the interesseous muscles and those of the thenar and hypotherar eminences At the end of live months the case was reoperated. The proximal ends of the nerves were found to end in bulbous expansions which were embedded in the cicatrix. There was a gap of 8 or 10 cm at the point of severance. The central bulbs were lengthened and approximation was attempted by suture A separation of 6 cm however, persisted The result of this second opera tion was negative and trophic changes soon appeared One year after the accident Jaboulty de cided to attempt a nerve transplantation operation a gap of 15 cm was found to be present The ends of the nerves were isolated and freshened and the defect made good by transplantation of the sciatic nerve of a dog (right great sciatic for the ulnar and right small sciatic and left perineal for the median) The transplants were left surrounded by the permervous cellular tissues according to the technique described by Douroux in an earlier publi cation (Journal de Chirurgie) The wound healed by first intention and the functional results of this graft were very gratifying. That same evening convulsive movements were observed in the paralyzed muscles. On the third day there was some motion in the wrist and on the fifth day some sensibility was determined in the region of the thenar eminence. At the present time five and a half months after transplantation, return of sensation is complete, movements in the wrist joint are normal, tlexion of the tingers and apposition of the thumb are awkward and incomplete. The patient can write hold a glass etc. Duroux attributes the insufficiency of movement of the fingers in part to the trophic alterations of their articulation and to

muscular attophy
Imong the 30 observations of nerve grafts
previously published (Kalvington) 170 only can be
used from the pount of vew of functional results,
used from the pount of vew of functional results,
through homograft and 6 through heterografts,
to which must be added the author's case). It
must be remarked that most often as in the case of
Durout the return of sensation a function purely
nervous. has been more complete than that of
critical forms of the properties of the case of the
critical field of the complete contents.

CH LENORMINT

Frazier and Mills Intradural Root Anastomosis for the Relief of Paralysis of the Bladder and the Application of the Same Vethod in Other Paralytic Affections. J Im M 125 1012 in 2202 By Surg Cynce & Obst

I rater and Mills report what they believe to be the rist case in which intraductal anastromosa of spinal nerve roots has been successfully accomplished. I pids months after operation the patient could despense with the urnal which he had worn cover unity to a period of a bours and with ground the properties of the bladder was possible. They believe the operation has a field in some forms of residual paralysis after polomy elits and possibly in some morphigas of central or peripheral organ. They discuss the office of the properties of the bladder and the operation is performed.

MISCELLANEOUS

CLINICAL ENTITIES-TUMORS. ULCERS. ABSCESSES, ETC.

Moullin: The Biology of Tumors Best M J. By Surg . Gynec & Obst 1012. 11. 1504

There is no hard and fast line between innocent and malignant tumors. They are common to all animals There is no proof of any parasitic origin Tumors are composed of a group of cells which for some reason break off all relation with the rest, ahandon all idea of function, and retain only the faculty of growth They are truly parasitic Moulin takes up at some length the study of the germ cell and the somatic cell - the former specialized for the purpose of maintaining the species the latter subordinating itself to the maintenance of the germ cell Whatever the origin of the tumor, no such arrangement ever exists between its cells and the parent body as exists between the germ and so matic cell. So there are two types of tumors one developing from the germ cell and one from the somatic cell The paper deals practically with only the somatic cell tumors. These tumor cells have thrown off all restraint. They grow and mul tiply more rapidly because the force that would have been consumed in raising the cells to a higher plane of differentiation is available now for growth Their energy which should go for the common good of the parent is now directed to their own selfish end of increase in size and number M 5 HENDERSON

Lister and Bloomfield Further Observations on the Carcinoma Skin Reaction Bull Johns Hopkins Hosp , 1912 Xviii 356 By Surg Gynec & Obst

In the hope of simplifying this test and shedding further light on its value in the diagnosis of malig nant disease, the authors carried out a series of experiments upon 62 verified cases of malignant disease (carcinoma and sarcoma) and in 94 cases of healthy individuals, the patients suffering from various non malignant ailments. Throughout the experiments the corpuscles of Group 4 alone were used (the corpuscles of which are neither agglutinat ed nor hæmolysed by any sera in vitro)

A summary of their 156 cases in which the corpuscles of Group 4 alone were used shows that t In 62 cases of verified malignant disease, two thirds gave a positive reaction and one third were negative

2 In 94 control cases, 91 6 per cent were negative and 8 4 per cent positive

3 is a practical diagnostic adjunct a negative skin test adds little or no weight to the evidence against cancer being comparable to many other

clinical tests of empirical nature 4. A positive reaction is strong presumptive evidence of cancer

5 To obtain reliable results corpuscles of Group 4 must be used GEORGE E BEILBY

Bryan: Precancerous Lesions. J Tenn St M Ass. By Surg , Gynec & Obst tor2. V. 315

After a brief discussion of the theories of the origin of cancer, Bryan expresses his adherence to the view that parasitic causes may be dismissed as having no support in fact, and reviews Ribbert's theory advanced in his recent work, "Das Karzinom des Menschen." as the most rational explanation of the origin of cancer He summarizes Ribbert's views as follows 'Every tissue has its proper place in relation to other tissues and as long as the structures remain normal cannot transcress the limits set for

it In the relation between epithelium and the subenithelial connective tissue and between the mucous membrane and the submucous connective tissue these lesions are rigidly drawn, so that whatever cause may produce a proliferation of the epiblastic and the hypoblastic cells it can only result in the accumulation of such cells in a mass on the surface in question, but never in the penetration of that tissue which serves as a basement membrane. and therefore never in the production of cancer Something more is necessary than an increased capacity on the part of the cells for multiplication."

In every case of beginning cancer studied by Ribbert - and his work has been borne out by other investigators - an explanation was found for the invasion of the subracent connective tissue not in the enthelial cells but in the changes brought about in the connective tissue itself as the result of an inflammatory process, constant in appearance and produced by striction which reduces the protective nowers of this connective tissue against the ingrowth of couthebra cells and it the same time stimulates the epithelial cells to an abnormal proliferation The arrat and which produces this inflammatory proc es may be mechanical chemical bacterial or electrical. The outhor then discusses the origin of cincer from new growths such as atheromata. epidermoids dermoids tertomata embryomata and polyps of the alimentary tract. It is interesting to note that the small number of cancers positively demonstrated in individuals under tifteen ve irs of age occur in precisely those organs which are most subjected to irritation or equivalent disturbances" Leucoplakia occurring in the mouths of syphilities. alcohol drinkers and smokers is very frequently followed by cancer Bottim observed 100 cases of cancer of the tongue of whom every one was a smaker or a chewer of tobacco Cancer of the gall bladder is almost invariably associated with the presence of gallstones or a history of gallstone colic 'Von Neve in India, studied 1720 malignant tu mors of these \$48 were cancers of the thigh and abdomen, which resulted from scars produced by the custom of carrying baskets of fire under their clothing" Xeroderma, gastric ulcer, X rays and radium and bilharziasis are cited as irritative conditions which may result in cancer formation The gist of the paper may be summed up in the statement that if precancerous lesions were more closely studied the recognition of the condition might be made earlier and more efficient treatment applied

Bériel und Delachanni: Malignant Lipoma (Les tumeurs milignes du tissu tellulo-ad peut). Arch de Mét exp et d'Anat path 1912 xxiv, 717 By Journal de Chirurgie

A woman (age not given) entered the hospital with a large tumor on the posterior aspect of the ment thich which had been present for one year At operation the peoplesm was found to have arisen from the sheath of the sciatic nerve. The specimen weighed three kilos Six months later there were metastases in the lumbar clands and in the fatts capsule of the left kidney causing lumbar and sciatic pun A second operation was performed. The left kidney was removed with a portion of the tumor as well as the lumbar glands. A year and a half after the first operation the patient died in a cachec tic condition. Autorsy showed an involvement of the right lumbar fossa the omentum the right lung, and the intermuscular cellular tissues of the Histological examination of these different tumors showed that they were of lipomatous origin both in the case of the primary tumor and in that At certain points there were of the metastases myomytous and sarcomytous characteristics, which were interpreted as indicating a lack of differentia The diagnosis was of a malignant lipoma as opposed to that of sarcoma with inomatous evolution These tumors arise from the fatty con nective tissue and ordinarily as opposed to the benign bromata their stroma is very cellular These cells develop fatty vesicles ut in atypical cases the sarcomatous appearance becomes predominant and the fatty origin of the tumor can P MASSON not be diagnosed

Neef- The Interpretation of Post-Operative Fever in Aseptic Cases Am J Surg 1912 2831 421 By Surg Gynec & Obst

It is a matter of common knowledge that every operation on an aseptic case is physiologically followed by a slight rise in temperature which is not due to infection. This reaction constitutes what has been fitly termed aseptic fever definite nature of this reaction is and to escape atten tion unless the post-operative fever chart is subjected to more than the cursory examination which it generally receives during the surgeon's rounds I urthermore a curve which clearly represents the typical reaction after an asoptic operation is not so frequently met with in everyday practice as might be supposed because of the disturbing influence on the temperature produced by manifold minor com plications in the course of recovery By exercising certain precautions, however, these extraneous influences may to a great extent be chammated systematically, and the true aseptic fever curve be obtained in its pure form

It is evident that with a concrete river of the character and behavior of the typical reaction the normal course of aseptic fever, any deviation from the normal which is due to the advent of a complication can more readily be detected. In order to the action can more readily be detected. In order to the readily and t

The normal aseptic fever is remittent in type, the highest wave follows the operation, while the waves on succeeding days diminish gradually in amplitude until the temperature becomes practical ly normal towards the end of the week. In general the maximum rise after an asentic operation may he expected to occur at a somewhat variable time within the first thirty six hours, that is, it usually manifests itself on the day following the operation Lor example, the average time of its appearance for one series of cases was eighteen hours, the eathest rise being nine hours and the latest noted twenty The maximum rise should be quite definite in its amplitude in general about 100 6° F ner rectum and as a rule it should not exceed 101° F per rectum without arousing the suspicion that some complicating factor is present. Under normal con ditions of the pelvic organs, that is in the absence of inflammatory foci in the pelvis, the onset of menstruation should not materially disturb this reaction in anomalous rise occurring at this time may suggest the presence of some latent pelvic trouble

Another point of importance in the clinical study of the normal aspitic fixer is that the rise of tem perature on the day following the maximum rise, or sooner — the post maximal rise as it might be called —should never exceed the maximum rise in amplitude. If may approach the latter but is of the curse of normal aseptic fever that the post-maximal wave, does not exceed the maximum wave this relation of the two waves to each other in the first part of a post-operative fever curse although suggestive, cannot be interpreted as precluding later compile totals or as thoruga an uncentful

Convered: in a case of bowel stass, where the properties, est usuation of the colons is insufficient the post maximili rise, may be marked, affected and show an ick-time which greatly exceeds the mixture of the color of the co

nutrefaction is reflected in the fever curve The maximum and post maximal waves, in such cases. may therefore remain unaffected, the perturbation

appearing later

Indeed, when early post operative evacuation of the colon is practiced, that is on the second or third day, the enema becomes a prophylactic measure When the rise appears on the fifth or sixth day after an operation it may sometimes be traced to a slight infection of the skin or mucous membrane perhaps through the channel of a suture. In view of the relative frequency of aberrations due to stasis in the colon, it is rarely in point to open the surgical dressing for revision of the wound before the effect of emptying the bowel has been observed | Flevations of temperature which have their origin in the bowel are promptly impressed after an enema has been administered. When this is not the case a spot of tender infiltration in the suture line of the mucous membrane or skin may be sought and in the slin in addition, a shoht redness betrays the source of trouble. With a concrete conception of the typi cal aseptic reaction and how it may be modified by the more common minor complications the way is open to the further study of the influence which more serious complications may exert

Welter: Echinococcus Disease Bestr & klim Chie 1912, lxxxu, 435 By Surg Gyner & Obst

Welter reviews our present knowledge of echinococcus disease and reports two cases from the Leipziger Clinic In both cases there was a primary liver echinococcus which ruptured into the right pleural cavity. The first case was that of a former sheepherder who complained of severe pun in the bepatic region, with bulging of the lower ribs on the right side, an enlarged and sensitive liver and an X ray shadow with a high standing diaphragm A diagnosis of echinococcus was made and the operation by Trendelenburg showed a large cyst of the liver with characteristic microscopical findings in the cyst fluid Four weeks later there were symp toms of sudden perforative pleurisy. An extensive rib resection with drainage was performed and later a thoracoplasty (Schede) brought about a cure

The second case was more obscure, beginning with a sudden chill, sweats and pain in the right hepatic region Scolices and hooklets were found in the pleural fluid. The right thorax was resected from the seventh to minth rib by Payr Death occurred in ten days from lung embolism

In both these cases the diagnosis was confirmed by the positive complement fixation test of Bordet-Geugon both before and after operation greatest inconstance in the diagnosis The treatment is primarily surgical Thirty-five cases of primary liver echinococcus with rupture into the right pleural cavity have been reported in the literature The operative mortality is close to 80 per cent

ERWIN P ZEISLER

Garin. Contribution to the Study of the Tropical Ulcer. Transtaal If J , 1912, VIII, 122 By Surg , Gynec & Obst

The cause of tropical ulcer is now admitted to be the spirochæta schaudinni Prowazek, associated with fusiform bacilli which have some relation with the bacilli fusiformis of Vincent But the species of fusiform bacilli is not yet fixed, and the mutual relations of the spirochata and the fusiform bacilli and modes of infection remain obscure

The author has studied 400 cases and finds that the historiathological changes agree with those studied by Keysschitz and Mayer These changes follow some quite definite line in regard to arrangement and relations of spirochates, fusiform bacilli and cellular elements. The spirochates found by the author conformed to the Schaudinn type and are known by the description of Prowazck infection from wound secretion is possible, but probably is rare. The author believes that transmission occurs by the aid of the resistant forms of Prowazek He describes some special bodies which he observed in three biopsies and believes they may have some part in transmission and that possibly they may arise from the spirochates which he believes precede the advent of fusiform bacilli in the formation of tropical ulcer. He believes that when spirochates few in number have penetrated the skin they may have a tendency to form these bodies. probably a cyst stage in their life cycle and then may adhere to splinters or other foreign substance and be introduced by the foreign body into healthy skin elsewhere to develop an ulcer. These special bodies are referred to as intra epidermal by the He advances a theory that the spirochate and fusiform bacilli may have a common origin. since many transition forms and gradutions are found between spirochates and fusiforms

The most satisfactory treatment consists in two or three daily applications of trypanblau in watery solution of t or 2 per cent, after first cleansing the After 36 hours parasites have usually disappeared and the ulcer presents a healthy red granulating surface Enidermic grafting by the Thiersch method is then performed upon the granulating surface The worst cases usually leave the hospital in fifteen to twenty days when treated by this met hod PLOYD R RILLY

SERA, VACCINES, AND FERMENTS

Tournier The Use of Antitetanus Serum in Tetanus (Considérations sur le serum antitétanique dans le tétanos) Thèse de Paris 1912, Nov By Journal de Chirurgie

The author has compiled an extensive review of various opinions expressed on the value of antitetanusserum and has come to the following conclusions First, the efficiency of the preventive injection of antitetanus serum is proven by the diminished number of cases of tetanus seen nowadays in civil and military practice (He mentions the infrequency of tetanus as a complication following the numerous accidents on the Fourth of July) Cases of tetanus arising in spite of preventive injections are very rare, and in many of these the author considers that the miections were not given according to the proper The dose of the serum is usually 10 cc , but in cases of serious laceration 20 or 30 cc should be The author stipulates that the French serum should be used, which ought not to be fresher than three weeks nor older than seven or eight months The injection should be repeated every ten days up to the healing of the wound Most scrupulous disinfection of the wound should be carried out

Many serious mishaps have followed the preventive injections, and as with other therapeutic sera they are difficult to avoid. It is nerhans better to give the second injection between the ninth and eleventh day following the first Calcium chloride. in doses of one gram per day by mouth to be taken during the first fifteen days, has been held to be of value. Lastly it is best to use the same method of

injection each time The curative action of antitetanus serum is un

certain but in some cases of proven tetanus the use of very large doses given intravenously almost daily has brought about a cure H Grayserror

Von Dungern, Serodiagnosis of Tumors by the Complement Deviation Reaction (Ucber Serodi agnostik der geschwulste mittels Komplementablen kungsreaktion III) Munchen med II chniche 1012 lix. No 52 By Surg. Gymec & Obst.

The author believes that the character of his tumor reaction can be made more specific by using acetone extracts of human red blood cells instead of alcoholic tumor extracts as advised in previous Blood of paralytics gives better specific papers With these blood cell extracts the sera of nationts with mulignant tumors also sera of syphilitic and tubercular patients gives a positive specific reaction By the use of chemically pure sodium hadroxyl solutions the reaction can be made more specific, as nearly all the tubercular and syphilitie sera react negatively. Only in case of surgical tuberculosis was a positive reaction present in spite of the proper use of the sodium hydroxyl solution

Among 102 stra of patients with carcinoma the reaction was positive in or cases. It was with it normal serum that hamolysis was arrested Of 16 cases of sarcomn 11 gave positive reaction Among the cases suspicious for cancer were 15 cases with a positive Wassermann, nevertheless the tumor re action remained negative This proves the reaction as very specific

The nature of the reaction does not lie in antibodies but in abnormal metabolic substances adding carbohydrate to normal human blood serum a cancer reaction can be imitated

HELIODOR SCHILLER

Schwartz and McNeil: Further Experiences with the Complement Fixation Test in the Dustnosis of Gonococcus Infections of the Genito-Urmary Tract in the Male and Female, An J M St , 1912, Cthx, 815

By Surg , Gynec & Ober In a previous paper attention was drawn to the value of the serum diagnosis of gonococcus infections in general, showing that in chronic gonococcus infections, even though limited to the genito unnary tract, an antibody specific for the gonococcus could readily be detected in the blood Experimental work showed that the secret of success lay in the use of a polyvalent antigen on account of the fact that the different strains of the gonococcus scemed to differ considerably one from the other Finally, the authors stated that in their opinion, the facts at hand seemed to prove conclusively that a positive reaction denotes the presence of recent activity in the body of a focus of living gonococci They give their technique in detail and discuss - first, the significance of a positive and negative reaction. second the time of appearance of a positive reaction (not to be expected earlier than about the fourth week of the disease and then only in acute cases with some complication, such as acute prostatitis, gonococcus arthritis etc.), third, the time of dis appearance of a positive reaction after cure, and fourth the relative value of the complement fixation and bacteriological methods of diagnosis in chronic and doubtful cases and the technical difficulties connected with the two methods. Chronic antero posterior urethritis is also discussed and a number

of cases are reported Chronic prostatitis as well as verumontanum disease in which gonococci were not found is dis In these cases chinically cured the authors examined 165 cases of which 13 2 per cent give a nositive reaction Gonocorcus infection of a woman is discussed and the conclusions drawn from this series of studies are as follows

A positive reaction denotes the present or recent activity in the body of a focus of living gono COCCI

A negative reaction does not exclude gonococ cus infection but for the reasons stated should be

accorded considerable importance A strong positive reaction is not to be expected earlier than about the fourth week and then only

in very acute cases with some complication A positive reaction is not obtained if the dis-

ease is limited to the anterior urethra

A positive reaction does not entirely disappear until seven or eight weeks after cure. In other words if a strong positive reaction is obtained seven or eight weeks after the apparent clinical cure the nationt should be looked upon as still harboring eonococci

In chronic cases, isolation of the gonococcus in culture is the only absolute bacteriological proof of ponococcus infection

The technique of a complement fixation test

is simpler than that of isolation of the gonococcus in culture, and the possibilities of error are less 8. In cases regarded chincally as post-gonorrhoad,

a positive reaction is obtained in 31 4 per cent

9 In 62 cases of chronic prostatitis giving a history of gonococcus infection within three years, a positive reaction was obtained in 54 8 per cent

ro In 165 cases looked upon as climically cured for at least three months, a positive reaction was obtained in 13 2 per cent

11. In nomen a positive reaction is probably not obtained unless there is some involvement at least

of the cervix

12 On account of the unreliability of the
bacteriological diagnosis of gonococcus infection in
women, the complement fixation test should prove

of special usefulness in gynecological conditions

Silver. Vaccine Therapy in Tubercular Bone and Joint Disease. Penn M J, 1912, xvi 219 By Surg, Gynec & Obst

The divergent opinions regarding tuberculin may be explained by the difficulty of accurately estimat ing the degree of improvement, the selection of un suitable cases, the lack of a simple and accurate method for determining dosage, and too short a period of treatment That it has proven efficacious in some cases cannot be doubted if we are to credit literature a shorter duration an improved function or both being claimed. It is noteworthy however as showing the general American experience that of 51 orthopedic surgeons only half could report (circular letter) any special experience while half of these were opposed to its use, and only four could be regarded as decidedly favorable. The author's cases, about fifty showed general improvement but no gain in duration or function

At present tuberculin is to be regarded as an adjunct to other measures in selected cases when used by the experienced but it certainly is not a measure for the busy practitioner.

Lyons A New Form of Tuberculin Some Notes on 1ts Diagnostic and Therapeutic Value Lancet Lond, 1912 clyxxii 1582

By Surg Gynec & Obst

A comparatively large number of patients react of uberculous is found clinically and who give no buttory of a tuberculous is found clinically and who give no buttory of a tubercular infection. By a process of uberculous of old ubercular with absolute alcohol the authority of the control of

advanced cases the inflammatory area is smaller usually about half an inch in diameter. In still more advanced cases the area of inflammation and induration is less well defined but recognizable, while in very advanced cases a reaction, if at all present, is very slight. The test as described has up to the present been applied to 270 persons Of these 101 were known to be suffering from tuberculous disease in various forms Of these 101 tubercular cases the reaction was positive in 186, the 5 tubercular cases yielding a completely negative reaction were in the last stages of pulmonary tuberculosis and died within two weeks of the date of the application of the test. In the remaining 70 negative cases no reaction whatever was noted and in these great care was taken to exclude the possibility of a tuberculous infection, past or present number of patients have been treated with the filtrate and so far the results have been very encouraging It is easily borne and does not pro duce the untoward results so frequently given by other forms of tuberculin DONALD C. BALFOLR

Whiteside The Use of Tuberculin in the Treatment of Surgical Urogenital Tuberculosis. J Am M Ass., 1912, hz., 2232

By Surg Gynec & Obst

Whiteside considers the tuberculin treatment of any case of tuberculosis an any stage as about on a pri with bacterin treatment of any other condition of great deal may be accomplished by using tuberculin in proper disage. He regards the choice of the preparations used as a personal matter each one being guided by personal experience. The opsoince index merely introduces another element of uncer tainty and error without compensatory advantage.

L G DWAN

BLOOD Vincent Treatment of the Hamorthagic Diseases of the New-Born 1rch Pediat 1913, xxiv, 887 By Surg Gynce & Olste

This article begins with a very thorough review of the literature on the subject and then takes up the question of animal serum and human blood serum. The subject of blood transfusion is reviewed and the later method used by Vincent is given. The technique is as follows.

Glass tubes 12 cm long and 3 mm in dimeter are used and the end which is inserted into the infant's ven is about 135 mm in diameter. The tubes are coated with parafin or a wax mature to tubes are coated with parafin or a wax mature to eld are the radial artery of the donor usually of the date the radial artery of the donor usually of the fasher and the largest accessable ven of the infant. The ven best used in young infants is the external jugular. This is exposed by a half meh incision, the ven is clamped with a light artery clip as low the venture of the coate of the venture of the

is stopped when the infant's face regains a normal red color There are reports of it cases treated in this way

In each case the immediate effect was to check, the bleeding and correct the anserma. Light of the 11 cases were cured, one died of a diffuse pertionities to hours after operation. One other case which ended fatally was probably of sphilitic origin, this control of the contro

All experiences teach us that the best results in these cases are to be obtained by the use of whole human blood blood serum or transfusion of blood In severe cases the last is to be preferred. There are two sets of cases however which cannot be benefited by this line of treatment. The first is where the cause of bleeding is bacterial infection or uclers of the stormach or duodenoum or syphils. The second form comprises cases with hismorrhage in the brain aircrash schores and buyer. C 6 Gustre

Pearce and Austin. The Relation of the Spieen to Blood Destruction and Regeneration and Hæmolytic Jaundice V—Changes in the endothelial cells of the lymph nodes and liver in spie nectomized animals receiving hemolytic surum J Exp M, 1912 to 10c B S Jung 3 jone & Obst

It is known that large endothelial cells in the spleen have the power to engoli red blood cells Further, the presence of blood pigment (in anymaand malaria) in the cells (kupfer's cells) of the liver capillaries indicates that these cells play some part in the destruction of red blood cells

part in the destruction of red bood cens. The authors found that in spherectomized animals. The authors found that in spherectomized animals agrets in increase of the phapocytic power of the endotheliat cells of the lymph nodes and her for red cells. They found the suuses of the lymph nodes picked with large pale endothelial cells nearly all of which contained red blood cells. This increase was not found in normal animals which received harmoly tie serum. These findings strong you support the properties of the support of of the sup

Pearce, Austin, and Musser The Relation of the Spleen to Blood Destruction and Regeneration and the Pempitic Jaundice III—The changes in the blood following splenectomy and their relation to the production of hamolytic jaundice J. Lay M., 1912 xvi 758 By Surg. 6) nec & Obst.

In a previous paper it was noted that (1) during an early period after splenectomy, jaundice fre quently failed to occur upon the administration of harmolytic serum, (2) later there was an increased resistance of the red blood corpuseles, and (3) spontaneous jaundice occasionally occurred several months after splenectomy

Examination of the blood of splenectomized dogs showed that there is a gradual progressive decrease in the red cells and hamoglobin which reaches the lowest level at about the 26th day From this time there is a gradual increase until the 82nd day the blood reaching pormal at about the end of four and one half months It was found that the period during which jaundice failed to appear corresponded roughly to the period of blood degener ation that the period of increased resistance corre sponded to the period of blood regeneration, and the spontaneous jaundice to the time when the blood regained its normal level It was found by animal experiment that does rendered anamic by bleeding also failed to show jaundice. It was further shown by blood count, hypotonic salt solu tion test and by examination for hamoglobin in the serum and urine that the difficulty in producing hemoglobinuria and jaundice in animals splenectomized one month or more is due to an increase in the resistance of the red cells

The authors tentatively conclude that the failure of the appearance of jaundice upon the injection of hierolytic serum is due to the aniemand not to the absence of the spleen. They conclude also that it is possible that spontaneous juin duce occurring at long periods after splenectiony is an accompaniment of the complete regeneration of the blood.

Pick Hæmorrhagic Diathesis Hunchen med

Behister 1912 In Dec By Surg Gynec & Obst
The author reports 34 cases of harmorrhagic
dathesis which occurred in the county of Sazz from
March to June 1912 Next to small superficial
harmorrhages large deep subcutaneous and intramuscular infiltrations were observed

The microscopic examination of the blood did not show any changes nor was the coagulation time of the blood decreased Subjective symptoms varied greatly also the general condition of those affected

As to the etiology of the condition the author believes the character of the food to be an all important factor. At the time of the present study there was a failure of crops and the poor population was forced to live on sviusages coffee bread and meat food which lacks the proper amount of potats sum salts. In short, the author believes the etiology to be the same as in scurvy

HELIODOR SCHILLER

Wilson Fatal Post-Operative Embolism Ann Surg Phila 1912 by 800 By Surg Gynec & Obst

The author presents a summary of the fatal cases of post operative embolism occurring in St Mary's Hospital (Mayo clinic) from the opening of the institution September 10, 1880, to December 31, During this period over 63 000 major operations were done and 47 cases of fatal post operative embolism occurred, a percentage of 007 The highest percentages of fatalities from operations on various regions were prostate (o 66), small intestine, colon and rectum and gall-bladder in the order named

The lowest percentages of mortality by regions in which any occurred were of the appendix and mouth No fatality from embolism occurred in any of the 1346 operations on the breast, nor did any follow any of the 440 vaginal hysterectomies, though there were s fatalities in the 1712 abdominal hysterectomies More than one half of the fatalities occurred between the fifth and twelfth days after operation. In three fourths of the cases the embo lism was pulmonary

Findley. Puerperal Thrombophiebitis Am J Obst. N Y 1012 Ivvi Dec By Surg , Gynec & Obst

Findley gives the histories and pelvic findings in a series of 7 cases of chronic and acute pelvic throm bophlebitis Two of these cases recovered - one, a chronic case after the administration of vaccines and one after an exploratory operation which pre sented no accessible primary focus The autopsy findings on the 5 fatal cases together with a study of the literature leads Findley to the following con clusions regarding the Trendelenburg operation

The operation of Trendelenburg is correct in theory, but is as yet in the experimental stage

2 It is contrary to modern practice to open the abdomen in the course of puerperal infection unless for drainage in general peritonitis and we therefore view the suggestion of Trendelenburg with mis givings

3 We are as yet unable to demonstrate clinically the extent to which the infection has traveled, hence it follows that an exploratory incision must be the final resort in determining the extent of the infection Even this means may fail to give the desired information

4 The pelvic views including the iliacs may not be thrombosed and yet the infection may attack the veins higher in the abdomen beyond control and even beyond inspection through an exploratory in cision Furthermore bacterial emboli may develop in the lungs and elsewhere without the formation of thrombosed years

The thrombosed veins may be secured and the infection later travel by other avenues and lead to a

6 It is not always possible to demonstrate the presence of infected emboli which when found, are viewed as contraindications to operative treat-

Findley believes the Trendelenburg operation will find a limited field of usefulness in obstetric surgery, and that the procedure is worthy of an extended trial N SPROAT HEANEY

Thrombosis and Embolism Following Ruff Bestr z klin Chir . Appendicutis Operations. By Surg . Gynec & Obst 1012. LXXIII. 345

In 188 operations for appendicitis, Bull has observed thrombosis in 22 cases and embolism in 15. He divides thromboses into manifest (palpable) and occult (not palpable) The palpable thromboses occurred chiefly in the second week, and especially in the left femoral vein The occult thromboses were manifested chiefly by an increase in the pulse rate without a corresponding increase in the tem-The symptoms of a pulmonary embolus were sudden, severe pain in the cardiac region or cyanosis, dyspnæa. chest anxious expression carnel nulse and death in a few minutes. Smaller emboli caused sudden pain in the epigastrium, precordium, chest or back, lasting from 5 minutes to or 2 days. In addition, there was restlessness, orthopness and a transitory rise of temperature and pulse Hæmoptysis occurred 1 to 4 days later There was usually no cough or expectoration The physical signs depended on infarct formation Regarding the etiology of post operative thromboses Bull makes the following statements Thrombosis rarely occurs, if ever, before the age of nuberty, and with greatest frequency after 30. (2) Thromboses are more frequent after laparotomies than after other operations (3) Thrombosis may occur in clean as well as infected cases (a) The thromboses may develop far from the operative (s) The left femoral vein is more often affected than the right (6) Pulmonary emboli due to post operative thrombosis seldom lead to abscess formation (7) In acute appendicitis thromboses occur much more rarely when not operated than when operated Bull argues that the determining factor in thrombosis is the anatomical change in the venous wall, diminished elasticity increased, thick-

The exact cause of post-operative thrombosis is still BLOOD AND LYMPH VESSELS

problematical

ness after middle age, plus variations in the pressure

ERWIN P ZEISLER

Buchanan Circular Resection and Suture of the Asillary Artery for Transverse Laceration by Fracture-Dislocation of Anatomical Neck of the Humerus. Surg, Gyntt & Obst, 1912, 28, 648 By Surg, Gynct & Obst

In 1908, the author could find but 18 verified cases of fracture of the anatomical neck of the humerus. and since that date the literature has not shown any great number of cases This particular bone lesion was not a causative factor in any of the reported cases of circular or lateral suture of the axillary artery, nor was laceration of this artery mentioned as a complication of this particular fracture

The author's own case is reported as follows. An incision was made at right angles to the anterior axillary fold The dislocated head was found with its articular surface presenting and its fractured surface impacted into the packet of vessels and nerves. When removed, a tear, four fifths across the axillary artery and just opposite the emergence of the subscapular and posterior circumflex arteries.

was revealed

A loop of tape was passed around the artery 134 inches above the laceration, just tightly enough to control the circulation A rubber protected clamp was placed upon the distal segment. The two emerging arteries were then ligated and severed and transverse section made of the lacerated artery, thus procuring two freshened stumps Being unfamiliar with the Carrel technique the author used his own improvised method. He sutured the vessel by means of interrupted sutures of the finest silk on the smallest of curved intestinal needles. About twelve sutures in all were placed, and they passed through all of the coats except the intima, which in this case was calcareous A provisional loop of catgut was placed about the artery above the suture and left loose so that it could make no constriction but could be used in case of secondary hæmorrhage, the ends being brought out alongside the drains After removing the clamps the hand became warm. whereas throughout the operation it had been cold Pulsation of the vessel below the suture was normal but was doubtful at the wrist No tissue for cover-The wound was ing the vessel was available closed with gauze drainage The patient recovered but has never had a distinct radial pulse and has considerable muscular spasticity and some limita tion of motion at the shoulder

Brief abstracts of the 20 cases of circular sutures of arteries hitherto reported are given by the author

Ney The Rôle of the Vein in the Arterial Collateral Circulation (Durble des veines dans la ur culation collaterale artérielle) Rev d'Chir 1912, vivi ont

Nev has studied the functional relationship between the venous and arterial networks in the extremities His observations were based on animal experiments and on two cases in which he had occasion to resect an axillary aneurysm He proceeded as follows in his experimentation. He first deter mined the pressure in the general arterial system and then, after exerting pressure upon the chief arterial trunk in the extremity he determined the Pressure was arterial pressure below this point then exerted on the corresponding veins. In this way he was able to determine the influence of the two factors which affect the arterial pressure below the constriction - first, the influence of the extent of the collateral arterial circulation and second the influence of the capacity of the venous channels After ligation of a large arterial trunk the arterial pressure below the ligature may fall so low that it cannot satisfy the aspirating action of the venous In such a case no blood or at least insufficient quantities of it, will reach the distal portions of the membrane. The author proposes to over come this by ligation of the vein at the same time as the artery. In this manner the veinous pressure is raised, which in turn causes a rise in arterial pressure sufficient in most cases to insufficient into the other interests. The author's eighteen experiments profred on dogs seem to sustain this point of view. The practical conclusion is that ligation of the chartery of a limb should be accompanied by ligation of the corresponding vein.

Boulay: Lymphatics of the Anus and Rectum (Étude sur les lymphatiques de l'anus et du rec tum) Thèse de Paris, 2012, Nov

By Journal de Chrurge
The author after devoting a chapter to technique

reviews the earlier work of Sappey, Quénu, Gérota, Cunco and Marcille He then details his own researches and states his conclusions 1 The cutaneous zone of the anus has two paths of lymphatic drainage The first consists of two

- 1 The cutaneous zone of the anus has too paths of lymphate drannage. The first consists of two lymphate trunks on either side, which go to the ingunnal glands. This path has been well desented by Quénu and Grota. The second path leads to the anorectal glands. They account for a recurrence above the levator ans in cases where the surgeon has been mable too excise these affected glands, though he may have otherwise performed an extensive extirpation.
- 2 The anal mucosa and the adjacent portion of the rectal mucosa possess lymphatic channels which run to the middle and superior harmorrhouds glands These is mpathic channels which fead to the middle harmorrhoudal glands are interrupted by certain small glands variable in size and number which he along the course of the homony must arrey and the course of the homony must arrey on to a larger gland situated at the point of origin of the middle harmorrhoudal arrey on the wing of the screin at the level of the second sarral vertice.

the sacrum at the level of the second sacral vertebra 3 The upper portion of the rectal mucosa drains into the middle and superior hæmorthoidal glands

A The lymphates of the rectum and anusatomous freely among thmselves and with the lymph vassels of neighboring organs. The anoretical glands form a relay on both the superior and the middle hæmorrhould paths of lymphatic drainage. The columns of Morgania are the sites of a fine anastomous between the middle and superior and the morrhould lymph channels. Bouley has not been able to find may lymph vessels accompasily might be indirectly the morrhould vessels nor has been the indirectly and the color of the co

POISONS

Mayer Purulent Complications Due to Erberth's
Bacillus (Complications purulentes dues au bacille
d Erberth) Argentina Med , 1912 No 48 805
By Journal de Chirurgie

The author reports three cases of typhoid fever with purulent complications

Patient was a man of 20 years, who had CASE I run a typical clinical course with several hæmorrhages and a positive Widal On the 23rd day he had a chill, and his fever, which had been down to o8 o° F. rose to 103 1° F, with a pulse of 140 Upon examination a small swelling was found on the right side of the neck, which the patient said had been present for eight years During the ensuing five days this tumor developed rapidly in size and became very painful Fluctuation was made out Aspiration yielded a thick yellow pus, from which typhoid bacilli and staphylococci were isolated Peyer was of a septic type Later there developed two small abscesses, one in the left breast and the other on the external aspect of the arm. In the ous from each of these subcutaneous abscesses typhoid bacilli and staphylococci were identified The abscesses were incised and the patient recovered

Case 2 The patient, a man of 23 years, had run a typical typhoid course He had shown a well marked broughitis There had been a hæmorrhage on the tenth day, on the sixteenth day a sacral area of ulceration had been noticed, on the eighteenth day his temperature, which had previously fallen began to show increased daily variations. His pulse rose to 140 Another decubital ulcer appeared on the back and one also over the trochanter Auscultation at the base of the right lung re vealed signs of pleural effusion extending to the angle of the scapula The fluid obtained by aspiration contained typhoid bacilli. The patient's Widal reaction was positive He was transferred to the surgical service, and died a few days later

Case 3 A child of 15 years developed a small painful tumor in the right flank, a month and a half after recovery from typhoid fever Unon examina tion this tumor was found to be situated in the right hypochondrium, between the parasternal and mam millary lines. It caused a well-circumscribed. visible bulging at this point. It moved with respiration, fluctuated, and was tender on palpation On percussion the dullness over the tumor was found to be continuous with the hepatic duliness which extended upwards to the fifth interspace in the mammillary line Examination of the other viscera was negative. There was no fever reaction was negative Exploratory puncture yielded a yellowish green purulent fluid, which microscopically contained numerous leucocytes and some degenerated liver cells Typhoid bacilli were found in the cultures The patient was transferred to the surgical service, and an incision was made over the presenting portion of the tumor A cystic tumor was found adherent to the abdominal wall which, when it was emptied of its purulent contents. proved to be lined with a typical hydatid membrane The diagnosis of a secondarily infected bydatid cyst of the liver was made The cyst was drained, and the patient recovered

SALVA MIRCADÉ

SURGICAL THERAPEUTICS

Loeb, McClurg and Sweek: The Treatment of Human Cancer with Intravenous Injections of Colloidal Copper. Intent M J, 1912, xx, 1015 By Surg, Gynec & Obst

The authors introduce this important contribution to surgical literature with a short résumé of previous work done along lines of chemo-therapy. With some of this work as a precedent, the authors experimented on time and other species of tumor-bearing animals, and finally on humans, with tarnous salts and solutions of copper. On the human subjects they used a colloid solution of copper prepared according to Bredig's method. Each patient received daily an intravenous injection of the solution, an average of 300 to 400 cc of the solution, and average of 300 to 400 cc of the solution, warmed to about body temperature, being slowly introduced. Usually six, sometimes seven, injections were given each week.

The injection is invariably followed by a rise of temperature, which varies usually between 1000 and 102° F Within six hours the temperature again returns to the normal level. The rise of temperature is frequently inaugurated and sometimes followed by a more or less severe chill. By diminishing somewhat the quantity of fluid injected. the chill can frequently be avoided The reaction becomes less after a certain number of injections have been given Simultaneously with a rising of temperature the pulse rate is usually increased. In certain patients who had a tendency to irregular heart action before the treatment was begun, this arregularity may be accentuated a few hours after the injection Otherwise no notable changes have so far been observed after the injection

On the whole patients tolerate these injections very well and their general condution (appetite, strength, complexion) improves. The number of erythrocytes does not decrease, but on the contrary probably shows a definite increase. The authors describe in detail the effects of the injections on the tumor and on the individual. They relate several case histories and finally draw conclusions when the contract when the contract in the contract of the contract of

"We may state that we are now able to cause the gradual retrogression of human cancer, which until now has withstood various modes of treatment, and furthermore, that the treatment does not seem to be himsted to one kind of cancer but applicable in the effective treatment of various kinds of cancer. Some cases which we have had under treatment of some cases which we have had under treatment of progressing the control be learned as cure, all others are progressing the control to be read as cure, all others are progressing that the control will be suspended at present the control of the control to the control of the

by this mode of treatment We hope, however, that the further investigations which we are carrying on at the present time will lead to a still wider extension of the applicability of this mode of treatment. In particular, we have made preparations to test the effect of this treatment on other cases of sarcoma, and also in psoriasis.

"There are two more conclusions to which as with to refer very briefy. In the first place our provisional opinion which was the starting point of these experiments—that many cases of human cancer might be more accessible to this mode of treatment than are rapidly growing mouse cancers. — has been confirmed by our observations. See modify, our experiments present very strong additional evidence in favor of the view which one of us has always upsheld, namely that there exists no existata difference between cancer of rodents and human cancer."

ELECTROLOGY

Gray Rontgenization for Non-Malignant Laryngeal Vegetations Am Quart Renigenol 1912 19 60 By Surg. Cynec & Obst

Four children suffering from papillomatous vegetations of the largna were treated by Rontgen rays with uniformly favorable results. The vegeta tive growths were single or multiple and all were situated on or near the vocal cords. The simp toms included not only voice changes but even marked obstruction to respiration.

The value of X rays in treating these cases is emphasized by the inadequacy of other methods Recurrence is ordinarily the rule whereas in radiotherapy the results so far have been perma

In each case the dosage employed is given in such terms that it can be easily duplicated by other X ray workers. The quantities named are moderate and quite within the usual danger limits. The author advises in addition to the usual protective measures that as much of the thyroid as possible be screened from the rays. HOLISE FOFTER

Pagenstecher X-Ray Burns Bettr & klas Chir,

Three precautions are necessary in order to awo therms by X-ray. These are proper usage the right kind of tube and the best protective apparatus together with complete solation from the ray. There is no such thing as idiosyncray, against the X-ray. The burn is the result of an absorption of a quantity of rays incompatible with the tissues. This absorption may occur in one or several sittings. The burns may be divided into the following classes erithems, blistening necrosis and cancer formation.

The X-ray ulcer is the most common form It begins with demantiss and rapidly attains a larger size, which remains the same, with no tendency to healthy granulation for months. In some instances deep necrosis follows. The author describes a case of ulcer of the abdomen resulting from X ray burns following eleven sittings within three weeks. Histologically, one observes the usual findings of ulcera.

tion with some vacuolization of the connecture trasses. The blood vessels are destroyed and the lumina occluded. The epithelium is the tissue which is damaged most extensively. As to the thrrapy, Pagenstecher does not find the good results of camphor alcohol as observed by Windler prefers surgical treatment, excision, and plants the prefers surgical treatment, excision, and plants are surgical treatment, excision, and plants of the prefers grafts.

Jones Ionic Medication Arch Rong Roy, 2012, Evul 246 By Surg., Gypec, & Obst

The author gives a resume of the results obtained with ionic medication by himself and others. He deals mainly with two ions, zinc for surgical and salts like for medical application.

The first named has proven of value in simple ulcration of the skin, the imcoss of the nomeon mouth, and rectum and of the cornea, in pyorhoza alseclars in oftenoic urefuthis, in mucous office, hemorrhoids, anal fissure, sinuses, varginitis and endometritis. Acne, furunculous, sycossi, way and rodent ulcer are favorably influenced by it and it can be used for the removal of warts and our offi-

Salicylic ion medication is of value in neuralgus and perineuritides, in painful affections of muscles and fibrous tissues and in the arthritides of gouty or rheumatoid nature.

Chlorine and iodine ions are mentioned as useful in softening citatical tissue, radium in the treatment of sarcomata mercury in rings orm, and nu merous others which may some day be found of value when given in this form. About HARTUS

Skinner, Circulatory Opacity Am Quart Rontgenol, 1912, IV 75 By Surg, Gynec & Obst

In view of the successful application of colloids alver solution in pyelography, and since the injection of a 5 per cert solution of it into the blood stream is permissible in septic conditions in the light of our present knowledge, the author conceived the idea of using this same method to portray radiographically the circulation of the blood in their glosing. Although he has not made an attempt the contrast of the contrast o

SURGICAL DIAGNOSIS

Hagemann Newer Methods in the Diagnosis of Surgical Tuberculosis Bestr z kim Chir, 1012, hxxn z By Surg , Gynec & Obst

Next to the clinical symptoms the investigation of the pathologic exertes plays the most important rôle in the diagnosis of surgical tuberculous Tuberculous pass has well marked gross and microscopic features. The whitish color, thin consistency, with cheesy greenish floorculi, plus the searcity of corpuscular elements with predominance of lymphocytes are the distinguishing features. Muller and Johnson find that pure tuberculous pus has no describe action on serum plates owing to the scrifty of locucytes with their proteolytic fermions of the second position of the proteolytic fermions of the second position of the pus is obtained from the closed body cauties.

The demonstration of tubercle bacilli in ous or an exudate is the most certain method of diagnosis of tuberculous. By direct smear this is frequently impossible because of the scarcity of tubercle bacilla in the excreta Centrifugalization or sedimentation may facilitate this The addition of the alkalis of sodium and potassium, or alcohol makes the fluid more homogeneous and favors sedimentation antiformin introduced by Uhlenhuth dissolves all organic substances, such as mucus, frees, keratin skin, hairs, etc. and dissolves all other organisms except the tubercle bacillus in a concentration of 2 5 per cent. The original antiformin method has been modified by Loetiler who shakes the material with chloroform and alcohol and finds the tubercle bacilli in the zone above the chloroform. Hage mann has found the bacilli in 31 out of 44 cases of surgical tuberculosis by using Loeffler's method and staining both with Ziehl Neelson's carbol fuchsin stain and the gram (Much's) stain Much's demon stration of a granular gram positive form of tubercle bacillus not stained by the ordinary carbol

fuchsin shows the necessity of using both stains The most reliable diagnostic method heretofore has been inoculation into guinea pigs. The injections may be made intraperitoneally or subcutaneous ly into the inguinal region The former method re quires 6-8 weeks and in the latter the incumal cland can be examined in a weeks. Bloch recommends traumatizing the inguinal glands before the injection This method may fail because occasionally the bacilli will pass through the inguinal glands and produce a general infection only in 6 8 weeks Oppenheimer advocates the injection of the material directly into the liver and spleen. In 5 to 10 days he finds miliary tubercles in these organs Lsch injects r cc directly into the heart This method is dangerous because of the liability to shock and sudden death and is limited to clear fluids. The urine for example must be neutralized with normal NaOH, centrifugalized the sediment diluted with physiologic salt solution and warmed before the injection The injections are made into the third or fourth interspace next to the sternum Hage mann has obtained evidence of generalized tubercu less by the intracardiac method on the 10th day, and by the subcutaneous method on the 15th day

Jacoby and Meyer made use of the increased susceptibility of tuberculous animals toward tuberculin to demonstrate the infection during the life of the animal They injected 0.5 to 1 o cc tuberculin subcutaneously and drew conclusions from the

temperature rise and the exitus The death of the animal alone is of value as normal animals show temperature reactions following tuberculin injections Lisch first used tuberculin intracutaneously to test the reaction of tuberculous guinea pigs Romer showed that tuberculous guinea pigs react to an intradermic injection of o oz tuberculin in a characteristic manner. A swelling the size of a quarter appears in 18-24 hours. This has a bluish red center with a porcelain-white ring around it and a considerable inflammatory areola. In about 4 days the skin necrotizes and a scar remains for a long time. In another form of the reaction the central discoloration is absent and a small necrotic area forms. A third, a typical form with redness and swelling for 48 hours, is described Hagemann tested the intradermic tuberculin method on guinea nigs infected with tuberculous material and obtained nositive results from the 10th day to the 21st day

The objection to all these methods is the long in terval of time involved and the failure in some cases of suspected tuberculosis especially in the serous exudates. Hagemann has devised a new test to demonstrate specific bodies either toxins or antitoxins in the tubirculous material in which no tubercle bacilli can be found. He injects o i ce of the suspected material intracutaneously into tuberculous guinea nies and obtains characteristic reactions which normal control animals do not show The test is made as follows or cc of the material to be tested is injected intradermically into a positively tuberculous animal whose susceptibility is tested by the intracutaneous tuberculin test. An equal amount is injected into a normal guinea pig As controls intraperitoneal injections may he made Pus and exudates may be injected directly Sputum must first be treated with antiformol centrifuged and dissolved in salt solution Highly susceptible guinea mgs are essential and are obtained by inoculating them with ro mg tubercle bacilli They live 6-8 weeks and are susceptible to as small a dose as o cocco tuberculm on the 14th day Hagemann has used this method in combina tion with the other method with the material from 48 cases of surgical tuberculosis In two exudates from the knee joint one ascitic fluid and one case of pus from a glandular abscess, the intracutaneous method alone showed positive tuberculosis

The specific rectton produced by tuberculous material shows all the characteristics of the intra dermic tubercular reaction. A visible swelling of the skin appears in 24-48 hours showing a blush-red center surrounded by a porcelain white ring and an inflammatory zone. Control animals never react typically. Ordinary pius produces inflammation of the skin both in tuberculous and control animals.

Hagemann concludes that he has a specific biological reaction for tuberculosis which allows of a positive diagnosis of suspected tuberculosis material in 24 to 48 hours and which is especially of value in cases in which tubercle bacilli cannot be demonstrated by other methods ERWIN P ZEISER

GYNECOLOGY

UTERUS

Rabinovitz Myoma of the Cervix Uteri Su. Gynec & Obst , 2012, 2v, 668

By Surg , Gynec & Obst

The author calls attention to the fact that cervical myoma is trace the average of the statistics from six clinicians being 3.3 per cent of all myomatic lice considers the subject under the following head ings 1. The report of a case of true cervical myoma 2. The definition and classification of cervical myoma 3. Younsideration of the pitho logy and ethology of cervical myoma 4. The lation of cervical myoma to conception pregnancy and labor 5. Trustment 6. Yabudation of 132 cases of cervical myoma a recorded in the literature since 1839.

for prictical purposes he would classify estroating monainto suprava agrical and intra agrical. Patho logically, cervicil, invoiced differs from corporal myoma only by its greater fending to composition and that it more frequently sends off shoots into the surrounding structures. In estudoicy is a yet not established. Recent studies on the internal secretion of the oway, while still in the process of cristal lization, hold out new hope. Chincially, this theory is adequately supported. (If Davis is adequately supported.

Faure Surgical Treatment of Cancer of the Cervix (Sur le traitement churun, ail du cancer du tol de l'utérus) Arch mens d'Obst e d'Gynéc, 1912, 1 149 By Journal de Charugge Faure states the conclusions drawn from a series

of 250 operations performed for cancer of the uterus

In early cancer which has only invaded one hip of the cervit and in which the vaginal cul de sac is still desible and the mobility of the uterus is un impacted. the operative mortality does not exceed 5 per cent. Complete cur is the rule and recurrence the exception. Faure has cures of 8 10, and even 14, vests? duration.

2. When the lesions are more extensive involving both lips of the cervist the vaginal muossa and the biase of the broad ligaments, with accompanying decrease in the mobility of the uterus, the operative mottality rises to 10 per cent, and in only 50 per cent of the cases is there a perimanent cure

3 When the mobility of the uterus is almost lost owing to extensive invasion of the culs de sac and of the broad ligaments, the operative mortality is 50 per cent and over and recurrence is the rule Yet, while a cure is here the exception it is still a possibility which warrants the operation

4 The operative mortality in the whole series

was 15 per cent, with 33 to 40 per cent permanent

cutes Wertheim's abdominal hysterectomy is the operation of choice Schauta's vaginal operation is indicated only in cachectic or very obese cases or in those in which owing to the extent of the involvement palitative measures only are possible. In Wertheim s operation the uterus, the upper portion of the vaging and the parametrium are excised en bloc The incision should be through normal tissues and yet not too far removed from the new growth. The hypogustric plands are removed only when they are found to be palpable. A well perfected technique is a necessity Preliminary bgation of the hypogastric arteries is very useful. They are to be found by enlarging the incision into the broad ligaments by the aid of the fingers The adness are removed in one piece with the uterus but if this proves and ward they are excised separate The isolation of the inceters is an indispensable step. They are found by retracting the posterior surface of the broad ligaments, to which they are adherent Preliminary catheterization is uscless The ureters are very rarely invaded by the neo The uterosacral ligaments are carefully The varina should not be divided clamped and out between two clamps. If its anterior wall is first incised it is possible to complete the division under control of the eye thus ensuring an incision through normal tissues The vacina should be scrupulously disinfected before operation \ drainage tube and two gauge drains are placed in the vacing and the peritoneum is closed above. In certain cases it is better to begin the operation by the vaginal route The vagina is divided 2 cm below the involved tissues and the upper segment closed with pursestring suture In abdominal hysterectomy is then performed In cases of pregnancy, the operation is if anything more easily performed

Freatment with radium should not be begun before the operation because of its sclerosing action on the tissues which complicates the procedure of isolating the ureters. The application of radium three weeks after operation is on the other hand very useful.

Boldt Which is the Best Operation for Cancer of the Uterus? From South Surg & Gyner Ass., Dec 1912 By Surg Gyner & Obst

Boldt stated that vaginal extirpation of a carcinomatous uterus gave a lower primary mortality, particularly the method of vaginal hysterectomy generally employed, thun the extended abdominal hysterectomy. It must be conceded, however, that in cancer of the cervix the percentage of recurrences was larger after cancer operations where vaginal

When one detailed upon vaginal extripation, the technique devored by Schnatia of Vienna, wheely be the state of the state

Despite its great superiority over the regular hysterectomy, the method of hysterectomy usually employed, it should be limited to obese women the incipient stages of epithelomn of the vagunal part of the cervax and to cancer of the body of the uterus, when the uterus was freely movable. It was particularly applicable in the cases of the aged because of the greater sluggishness of the Jimphatic system in persons well advanced in years Generally peaking, however, the critect and proposed proposed processing the control of the proposed processing the procesi

through the abdomnal route Furthermore, one could inspect the glands and extrapate them if the abdomen was opened, which could not be done when the vaginal route was used The remote results showed that if the abdomnal operation be done properly the ultimate percentage of recoveries from cancer of the uterus was fully 50 per cent more than by the vaginal route But one must really do the extended operation, not the original pan hysterectomy first done by I reund for cancer of the uterus.

Wyart · Report of Eight Cases of Prolapse Treated by LeFort's Operation Proc Roy Soc M 1912, vi 59 By Surg , Gynec & Obst

Whatt gives a brief history of this operation, crill ing attention to the first that it is of great value in cases of procidenta in old people, where any form of pessaries fail to keep the womb in position, and where either on account of age or from the condition of the abdominal wall a laparotomy for fixation methods is contraindicated. The method used by Tate prevents any question of active sexual hies so that it has been performed only on single women or women who no longer lead actively exual lives Whatt reports two of his own and six cases operated upon by Tate.

[Monograph] Schauta: The Extended Vaginal Total Extrapation of the Uterus in Carcinoma Godi (Die erweiterte vaginale Totalextripation des Uterus bei Kollumkarzinom) \ \tenna and Leipzig J Salar By burg Gynec & Obst

The attention of surgeons has been so actively centered within the last few years on the wide removal of tissue surrounding carcinoma of the cervit uteri that a review of Schauta's work on the extended wagnal operation will be of interest

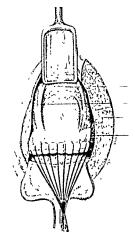
extended vagunal operation will be of interest. He draws attention to Schuchard's description of his technique in 1853 and 1875 as shown by Clark and Russ in 1853; lent an impetus to the abdominal Russ in 1855; lent an impetus to the abdominal the glands will be expectational offer the temoval of the plands will be abdomed to the plan

Schauta states that the first proposition is proven by almost all cases with involved glands having recurrences. The few cases not recurring do not disprove this rule, in view of the increased length of

operation in the gland removal

He states that has second proposition is true and gives numerous cuts showing the amount of para metric tissue removed with the uterus. He expresses a doubt that surgeons would have abandoned has appaid toute except for the glind temoval, and the supposition of gland removal trought and the subsection of gland removal trough the extended vaginal total caterpation." In Chapter II the technique as developed in 258 cases is given I tams to remove as much of the parametric tissue as possible and at least one third of the vagina Usually this can only be accomplished by the paravaginal cut and the separation

of the ureters In the preliminary treatment of the carcinomatous cervix, the operator assistants and nurses wear gloves and a special set of instruments are used The carcinomatous mass is thoroughly curetted and cauterized and the cavity tamponed The vagina is now disinfected the instruments are removed and the gowns and gloves used by the operator and assistants are changed for fresh ones The circular incision of the vagina is begun ordinamly at the junction with the middle and upper third - in severe cases at the middle, in extensive metastasis in the vagina the entire vagina should be removed. This circular section is begun by grasping the vagina at the desired points with clamps or volsella and incising the wall external to The separation is then completed by blunt dissection up to the cervico vaginal junction. The vaginal cuff thus formed is stitched closely together with several strong silk sutures left long for the purpose of traction on the attached uterus In this way the diseased area is closed off from the field of operation The gloves are now changed, as also are the instruments that were in use Schauta now



Lig 1. The extended vaginal operation at the end of the fourth step. The circular cut cuff separation of the bladder in its middle portion and the periness signal cut are done. The pillars of the bladder are still in connection with the parametria and cover the uterine vessels and the uterlets.

separates the bladder in the middle line and the melled pillars of the bladder are carefully separated, differing from Schuchardt in doing this before the private pillars and the smaller in order to be able to abandon the operation if the carenomatous in volvement is too extensive. The uretractional interest of the carenomatous in the carenomat

Schauta delays the paravaginal cut until after Schauta delays the vaginal portion, the formation of the closed cuff, and the separation of the bladder of a sufficient extent to prove that a continuation of the operation is permissible. In this order of operating he differs from Schuchardt, who makes the paravaginal cut - or as Schauta calls it, "the perineo-vaginal" cut - first Schauta claims an advantage in his procedure, not only on account of avoiding the trauma and the subsequent repair in the event of the necessity of abandoning the opera tion but in avoiding as much as possible infection and carcinomatous implantation in the penneovaginal incision. He follows Schuchardt in com mencing this cut in the vagina at the point of the commencement of the circular cuff, where the lateral wall goes over on the posterior wall from this point the incision is continued outward and progressively deeper to the posterior end of the labia majora and in depth to a point near the posterior and lateral margin of the anu-

posterior and interai margin of the anus-Isolation of the urefers. I appenence in 25% cases proces to the author that this can be done without the aid of ureteral catheters. The bladder separation already commenced is now continued well up.

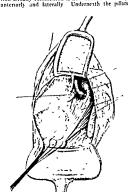


Fig 2 Lifth step. The pillars of the bladder separated from the parametria and pushed forward. This makes the upper margins of the porametrium with the uretri slit, its loops, and the uterine vessels visible, which latter go here behind the uretre toward the lateral edge of the vagina. The vaginal cult is pulled aside and downward so that the ureter forms a sharply curved loop.

of the bladder and at the level of the internal os

He divides the cases into two lands. In one the connective tissue is not infiltrated and is adjusted in the connective tissue is not infiltrated and is adjusted. In such instances of soft elastic tissues the pushing up of the pillars of the bladder and use separation of its posterior will from the parametrium also separates the few fibers of the parametrium covering the ureter forming the ureter sit in this way, the ureter goes up with bladder and is not seen during the operation. Such cases, however, are rare

Such cases, nowever, are rate class, where there is.

In the other was a continuous of the parametrium of the modered due is fixed, and the ureter remains in position to be dissected out. On exposure of the antenor face of the parametrium the ureter will be seen in a sharply, angled loop with the uterious arters, above. The difference in curve from that of normal is due to the downward and lateral traction on the uterious and the parametrium in this polling the ureter with it. At the exposed point the separate output by bluin or sharp dissection. With wide retraction of the separated bladder and ureters the uterine artery and veni are used will out to the side.

Schauta uses silk. The culd es see is now widely opened after separating the rectum posterorly. The parametrum is thus exposed on both sides and is cut through far out on the lateral walls of the pelvis with the inger could be considered to the control of the country of the c

separated above and belon.

The division of the tissues well out on the side walk of the pelvis being accomplished the bladder perintenem is now opened, and the uterus is only perintenem is now opened, and the uterus is only are told to the pelvis broad and cound ligaments. These rate told in the perintenem is not pelvis of the perintenem in the perintenem is an experience of the perintenem in the perintenem in the perintenem is a perintenem in the perintene

After removal of the uterus with its attached parametrium, the field of operation is gone over and all bleeding points are enclosed in ligatures. The virous bleeding will have already crased. The peritoneal edges are now carefully closed, the

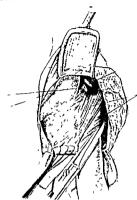


Fig. 3. This plate shows the operation at the end of the sixth step. The nexters as in Fig. 1 are pulled down and to the right side. The uterine aftery and view are flageted and cut through. This frees the uteret which is pulled farther upward so that its curve is more rounded than in Fig. 2. The parametrum is free as fir as the lateral portion, which in the illustration is holden belind the corresponding part of the perimer vagmal cut but can be strongly and the corresponding part of the perimer vagmal cut but can be strongly and the strongly and the service and the cut but can be strongly and the service of the

ovarian stumps being drawn down into the wound by the attached ligatures and made extraperitoneal by being stitched into the angles of the united pertoneal edges The raw area is loosely packed with gauge

The perinco vaginal incision is now closed and the operation is completed. The gauze drain is not usually removed completely until the eighth day, on account of the tendency to collapse of the vaginal tube.

Operability Schauta does not include among the cases reported any abdominal operations for carcinoma, or carcinoma of the body, or for recurrences, or operations on private patients From June, 1001, to June, 1007, 564 cases came to the clinic Deducting 35 who refused operation his operability

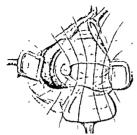


Fig. 4. Sutures through the pertoneal edges. In the right corner the stump of the broad I gament is fixed by a stuting passing through it. At its outer side the unrier curves from the post pelson wall to the blad for. Posteron and the lead out in several of the methy side.

the following questions suggested by Winter
1 How long after the appearance of the first

symptoms did the patient ask for medical advice'
2. What has the physician done'

3. What was the difference in time between the advice given for operation and that of visiting the

He finds that in answer to question No : 118 per cent asked for medical advice within the first month 10 per cent after three month and the rest later. In answer to the second question he finds that 118 called in regular physicians of which received in answer to the second question he finds that 118 called in regular physicians of which received in answer to this third question 128 per cent sought the clinic within the first week after receiving allows.

Schröfa states that from a study of his cases at all had acted in the promptest and most fivorable manner on the three questions 87 per cent would have been operable a small number giving no early symptoms. He liys great emphasis on instructing

1Schauta Monatschr I Lechurte u Cymit 1618 xxx i 650. In ten yearn experience 010 patients say find t vel me tene melhol in generer of the basty, a set related operation 4.3 were operated on 112, per tene operated ty), 40 droft (3 o per cent mortality). The mentality however with n tel 1617 yearn has been producted to 17 per cent. the public as to the first symptoms of cancer of the utterns and in seeking medical advice promptly. Me public with a seaking medical advice promptly. Me public with a status of the sagnal vault is only slightly entroached on and na shield the influention of the parameterom is only in shield the influentiation of the parameterom is only in the values of the cervica are operable. White only excludes cases with influentiation down to the things of the cervical seaking the status of the cervical seaking the cervical seaking the status of the cervical seaking the status of the cervical seaking the seaking the cervical seaking the seaking the cervical seaking the status of the cervical seaking the seaking the ce

Schauta says "My opinion has been charged unce I have been performing the extended again at lotal extingation. Even the infiliration of the total parametrium is not a contraindication provided the timor mass is on examination under ether, only slightly mosable since in its remoral leatures are not used. Histological examination has shown on used.

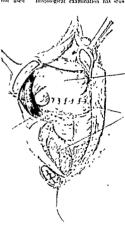


Fig. 5. The operation is finished. Perstoneal saturated that his flustration one sees the stump of the broad ligament fixed in the right corner of the perstoneal edges the curve of the right treater and the stump of the uterated versies of the right sade. There remains only the sature of the perstoneal edges to the right sade. There remains only the sature of the perstoneal sagnal cut to be made.

that the parametria inditrated even to the petuc usile may not be carcinomatous, while at time even apparently free parametric tissue may coin toward the bladder as the gravest prognosis, and cytoscopic findings of bullous cedema, protrusion of the trigone, and displacement of the ureter add to the gravity of the condition, though not absolute contrandications, on account of the possibility of executing the base of the bladder. The mortality,

nowever, is night Schauta, after having had to 1 operable and 57 moperable cases cystoscoped gives it as his opinion that cystoscopy has no decided value in determining the operability of the case. He does not regard the involvement of the vagina any contraindication, since it is possible to remove the entire vagina.

Mortality He divides his cases into three classes

1 Easy cases in which the parametrium was free, of which there were 79
2. Those with infiltrated parametrium, including

126 cases

3 Border line cases as to operation, 53

He compares this mortality with that of ordinary vaginal hysterectomy, and states that there is practically no difference, giving in evidence the following statistics

Ordinary vaginal hysterectomy
Schauta 10 3 per cent
Gusscrow 14 4 per cent
Olshausen 12 7 per cent
Fritsch 6 6 per cent

Eight cases died of sepsis, eight of pulmonary complications, and two of thrombosis

Injuries to the bladder and wreter. He states that

in no instances were the ureters injured in easy cases In grave cases 120 in number, there were injuries to the ureter in 6 cases, or 47 per cent. In cases on the border line of operability, 53 in all, the ureters were injured in 5 instances or 0.4 per cent.

In all cases injuries of the bladder and the ure ters was 85 per cent. He compares this with ordinary vaginal hysterectomy, in which like injuries are 56 per cent (Duderlein and Kronig, 1001)

Permanent cures Schauta divides his cases into those who have been under observation for 2, 3, 4, and 5 years, and states that 77 7 per cent of all recurrences occur within the first two years If

"In Monatsch I Geburts u Gynik 1911 sxtun 680 he states that in 445 cases his mortality was 8 9 per cent and that within the past three years his mortality has been 3 7 per cent no recurrence has taken place within this time he believes the probabilities of the cure are most

After 2 years 47 2 per cent had no recurrence After 3 years 43 7 per cent had no recurrence After 4 years 44 per cent had no recurrence After 5 years 38 2 per cent had no recurrence

Absolute efficiency His absolute efficiency, reckoned according to Winter's formula for cases having no recurrence after five years, is 12 6 per cent 2

Gland renewal In 60 post-mortem examinations on cases having uterine cancer (distributed as follows. Dyring from operation, 11, from other causes, 9, from cancer, 40) he found that of the dyring from cancer and without operation 43 3 per cent were free from carcinomatous metastassis and beginned of all 60 post-mortems, 23, showed no pelvic or aorta glands were anvolved 8 showed not volvement of the pelvic but not of the aorta glands, 21 showed "involvement" of both, and 5 showed unvolvement of a aorta glands or of the second twolvement of a aorta glands or of the second twolvement of a aorta glands only of the 34 cases of gland involvement of 9, 13 per cent, could

have been benefited by regional gland removal 5 Schauta's deductions from the above studies are that, in general, gland removal is not of material

benefit to the patient

A detail of the findings operations, and recovery
of each of the 258 cases reported is given in full

fiven in full

ADNEXAL AND PERIUTERINE CONDITIONS

Primrose Hæmorrhage into the Peritoneal Cavity Caused by Accidental Rupture of the Ovary Univ Toronio M Bull , 1912 3, 18

By Surg , Gynec & Obst

The author records two cases which were not connected with pregnancy. In both what appeared to be a normal Graaffian follicle had ruptured as a result of an accidental strain. In the first case the patient lifted a heavy weight and the rupture oc curred immediately In the second case the patient had a violent attack of vomiting in the early stage of an acute appendicitis and the rupture occurred then In both there was a serious harmorrhage into the peritoneal cavity, nearly proving fatal in one The author attributes the rupture to the fact that the ovaries were congested because the women were within two days of the menstrual period. The Graaffian follicles were under tension at that time and the increased abdominal strain was sufficient to cause their rupture

7 Schauta Monaischr i Geburts u Gynäk 1911 xxxin, 680 Dur ung the first five years of the ten yeur peri si covered by this paper, 477 abplied at hat climic 131 were operated on with one recurrence in 73 alter five years or 30.7 per cent groung an absolute efficiency of 16.6 for all cases seen in this period.

for all cases seen in this period.

"Writhers state in his admirable monograph 1913, reporting the results of operations by the abdom null route on 500 cases that in results of operations by the abdom null route on 500 cases that in the property of the p

The author urges that more attention be paid to the rupture of a Gradian foldied as the cause of internal hemorrhage in women. He believes that it is more frequent than the majority of text book writers lead us to infer. In ectopic pregning, he advises examination of both oxires, as the one not connected with the pregnancy may have a ruptured of the dependence of the control of the dependence of the control of the control

Polak: A Further Study of the Fnd Results of the Conserved Ovary J Am M Ass lix 2138 By Surg Gynec & Obst

Pulse attempts in this paper from a study of 22920 personal cases to difficentiate between and executions from the end results of the resected as compared with those of the conserved with those of the conserved with the control with the control with the control with the control of the contr

The natural and proper conservation of the ovary consists in leaving it alone or of placing it in such a position that there is no obstruction to its afferent

and efferent circulation or twisting of its ligament.

Interference with the efferent circulation is rapid
by followed by changes in the ovarian structure
such as swelling from passive congestion increase in

stroma thickening of the tunica and cyst formation.
As a result of his analysis he draws the following conclusions.

1 Only healthy ovaries should be conserved

2 The right ovary when conserved is less prine to subsequent inflammatory changes than the left 3. All retained ovaries or portions of ovaries should be placed in such a position that their circulation is not interfered with

4 Resection gives the best results when its application is limited to large monocysts retention

cysts, fibroids and dermoids

5 The multiple cystic ovary should not be resected. Leave it alone or take it out

6 A resection should be extensive. The suture line should just be approximated not constricted and covered with a reflexion of peritoneum.

Andrews Ovarian Teratoma Containing Brain and Well-Formed Intestine Proc key Soc W, 1912, VI 54 By Surg Gynec & Obst

M. Z. aged 20 six children last one year ago pain in abdomen. Operation was performed and to mor of right ovary, size of tangerine orange, and a felt ovarian cyst were removed. Insule the in mor there was a quantity of scherocas miterial and some hair. The wall. A natera about 5 cm in was smooth was smooth to the control of the three certification of the control of the control of the three certifications.

ing a smooth, slightly convoluted surface of yellow ish color and suggesting brain, (a) enercing his was a rounded ridge which had a pitted, white petter and surface from which sprouted numerous black hurs, (3) from one extremity of this ridge there rose a tubular structure which projected into the cyst but was attached by a mesenter. It the base of this tybe the kinds extract home

Sections of the first area showed a quantity of never tissue in which there were glac cells with an abundant network of filmis. There were also multers of nerve cells of various sizes and shapes, normalized the control of the contr

Huffman A Maiformation of the Fallopian Tube Surg Genee & Olst 1912 av, 680 By Surg. Genee & Obst

The tube in this case was removed from a virgin in conjunction with a fibromyoma of the uterus From its external appearance the tube might have passed for normal but more careful inspection showed a double lumen in the region of the inner half of the ampulla While two tubes were here evident the diameter of the two together did not exceed that of a normal tube From the posterior aspect the posterior tube appeared to end blindly at the function of the anterior with the isthmus but serial sections revealed an anteroposterior communication between the two Both tubes com municated directly with the outer portion of the Each had separate well developed circular and longitudinal muscular walls, but both were held together by a common subserost and peritoneal coat. The mucosa in each appeared normal

Huffman reports this case as of interest not only embryologically but as well with respect to tabal pregnancy. The implinitation of the ovum in an anomalous embedding area is no doubt of some etiological significance. Inother point of interest in regard to anomalies of the tubers is their association with fibromyomata of the uterus as was the case in this instance. CARY CLEBERTO.

MISCELLANEOUS

Bovée The Application of Iodine to the External and Internal Generative Organs of Women in the Treatment of Infections and Preparation for Surgical Operations on the Same Trans South Surg & Gync Ass. Dec. 1912

By Surg , Gynec & Obst

The conditions in which this treatment was applicable were given by Bovée as follows (1) Acute infections of the vulva, vagina, urethra, and

the whole of the endometrium (2) Acute peritopeal infections with proper limitations Chronic conditions following infections of these structures and of the tubes ovaries and pelvic peritoneum (4) In pelvic surgery requiring examinations manipulations, or operations on or through the vagina (5) In such procedures as required opening the cervical canal or uterine cavity from either the vaginal or peritoneal side (6) As a routine method of preparation of the held of operation on all these structures as well as the rectum

For several years he had confined the treatment of recent and remote Neisserian infection of the vulva urethra, vagina, and cervix to the application of iodine. He had great confidence in the efficacy of this remedy when applied early. If the condition might be treated before the infection had passed into the uterine cavity or the glands of Bartholin it could often be eradicated by one thorough painting of the exposed areas below the uterine cavity. If the first application failed a second made three days later commonly succeeded. In pelvic surgery that required examinations manipulations or operations on or through the vagina, this plan of local steriliza tion was far superior to any other he had used. The importance of the vacunal application of iodine was emphasized in the radical operation for cancer of the cervix uteri. The high mortality from infection of the peritoneum as a result of breaking of the speci men during its removal and the resulting leakage was a striking feature of the recent report of Wert heim's work in this field This sad complication was best obviated by the use of the jodine in both the vagina and endometrium, preceded by galvano cauterization, with or without curettement if excrescences or craters be present Since the etiology of cancer was not known he would warn against driving any cancer material beyond the uterus by employing considerable pressure in in secting that organ I S TALBOT IR

Ferguson: Twentleth Century Problems in Relation to Marriage and Childbirth J Obn & Gynec Best Fmp , 1912, XXII 317

By Surg , Gynec & Obst

This article, Dr Ferguson's presidential address before the Edinburgh Obstetrical Society is largely philosophical in nature but concludes with statistics on puerperal infection and accidents of labor that are well formulated

DEATHS FROM PLERPIRAL SEPSIS (FIGLAND AND

	WALES)
1901	2 24 deaths per 1000 births
1902	2 14 deaths per 1000 births
1903	1 82 deaths per 1000 births
1904	1 80 deaths per 1000 births
1905	1 88 deaths per 1000 births
1906	1 80 deaths per 1000 births
1907	1 66 deaths per 1000 births
1908	t 46 deaths per 1000 births
1909	1 64 deaths per 1000 births
doction of the	

a decline of 30 per cent from the death rate of 1901

DEATHS FROM ACCIDENTS OF CHILDBIRTH (ENGLAND AND WALFS)

(Not including puerperal deaths where kidney, cardiac pulmonary, or other intercurrent affections produced fatal results during pregnancy, and which

included in Scot	tish puerperal statistics)
1001	2 40 per 1000 births
1002	2 34 per 1000 births
1003	2 33 per 1000 births
1004	2 14 per 1000 births
1905.	 34 per 1000 births
1906	1 27 per 1000 births
1007	2 24 per 1000 births
1908	2 00 per 1000 births
1000	> 14 per 1000 births

ALL DEATHS FROM PULRPERAL SUPSIS AND ACCIDENTS

OF CHILD	BIRTH (FIGLAND AND WALFS)
1001	4 65 per 1000 births
1001	4 54 per 1000 births
1003	4 og per 1000 births
1004	g gg per 1000 births
1005	4 20 per 1000 births
1000	4 04 per 1000 births
1907	3 90 per 1000 births
8001	, 67 per 1000 births
1000	3 77 per 1000 births
1010	a 50 per 1000 births

Annual death rates from nucroeral senses and accidents of childbirth to a million persons living in successive guinguennia, 1876-1010 (England and Wales) were as follows

ror the 5 years	
1876 1880	142 0
1891-1883	165.0
1886~1800	1426
1891-1895	167 8
1896-1900	137 6
1901~1905	120 4
1906-1910	u7 8

During the 10 years 1897 1906 puerperal fever and the accidents of pregnancy and childbirth caused the death of 1 mother to every 228 births in England and Wales

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1007
            1 mother to every 261 births
1008
            1 mother to every 280 births
1000
            mother to every 270 births
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REPORT OF M O II FOR GLASGOW 1011

Attended by	Births	Puerperal Fever Cases	Rate per 1000 Births
Doctors	10 390	31	3 0
Midwives	12 446	82	6 6
	22 845	113	4.8
REPORT OF M O	H FOR G	LASGOW,	
Attended by	Births	Puerpersi Fever Cases	Rate per 1000 B rths
Doctors	10 353	44	4 2
Midnives	12,133	80	7 3
	22,486	111	5.7

133 5 7

Showing relative proportion of confinements attended by medical man and midwife (certified and uncertified) in the understand places

uncertined) in the un	idernoted piace:	8
Glasgow	46	54
Perth	72 7	27 3
Ауг	50 6	49 4
Renfrewshire	82 1	17 0
London	75	25 +
Derby.	about 25	75
Coventry	20	75 80
Liverpool	26	7.4
Nottingham	45	55
Average of above	5a 8	40 2

Norris: Sterility in the Female without Marked Gross Pathology, Report of Thirty-five Cases. Sure Gince & Obil 1012 XV 700 By Surg Conec & Obst

CARRY CLIBERTSON

Norres considers that a marriage may be considered sterile at the expiration of two years where no children have been born and no means employed to prevent conception. The responsibility of the husband is rated variously, according to different investigators but statistically it varies from 16 to 50 per cent Sterility may be primary or acquired absolute or relative. In the United States in 1900 twenty per cent of native marriages were unfruitful while among the foreign element this proportion was reduced to thirteen per cent

Concental mulformation of the central tract is the most frequent cause of sterility The uterus is probably most often at fault the infantile type being most often encountered Stenosis of the cervical canal is not infrequent Anteflexion and narrowing of the upper portion of the vagina is frequently associated with hypoplasia of the uterus which is also present where there are disturbances of the various internal secretions of the hypophysis thyroid adrenals etc. Stenosis of the cervical canal and anteflexion of the uterus are also account able for a certain proportion of cases. Mild cervicitis providing a plug of thick tenacious mucus is occasionally present as a cause for sterility as is the so called endometratis fungosa Mild forms of salpingitis vaginismus and spasm of the uterine hgaments are other causes mentioned where patho logic lesions are not marked

Under treatment the author discusses dilatation of the cervix and the Pozzi and Dudley operations and strongly favors the stem pessary as devised by

Carstens or Wylie He regards the objections to this instrument as greatly overestimated. The importance of thorough cervical dilatation preceding the introduction of the pessary is emphasized, as is the necessity of first excluding the possibility of pelvic inflammatory disease and any form of gonor Curettage at this time is deemed unwise, as are subsequent douches

Of the thirty five cases possessing such minor defects as are here discussed, all of whom were sterile for from two to twenty eight years, thirteen conceived Pregnancy occurred in three while the pessary was in situ. Seven of the failures have been operated upon less than one year and in some of the earlier cases the fecundity of the husband had not

Norris' conclusions are as follows (1) One in every seven or eight marriages is sterile. About

been proven

lifty to seventy five per cent of these are due to sterility of the woman (2) Sterility may be the result of a variety of causes both local and general The success of the treatment depends upon the correct diagnosis of the etiological factor present in each case (3) Excluding gonorrhora, the three most frequent local causes productive of sterility are hypoplasia of the uterus construction of the cervical canal or a mild grade of cervicitis (4) The routine practice of subjecting all cases of sterility to some form of dilatation operation, eften without even ascertaining if the woman be the partner at fault cannot be too severely condemned (5) When hypoplasia of the uterus a constriction of the cervical canal or anteffexion is present, the stem pessary offers an excellent means of treatment. It produces permanent dilatation as proven by the fact that it cures more than eighty six per cent of cases of expulsive dysmenorrhora. The stem pes sary tends to produce development in those cases of hypoplasia of the uterus and by the drainage secured often cures and in all cases facilitates the treatment of endocervicitis of non gonorrhead origin. It also straightens out flexions. In the gynecological department of the Hospital of the University of Pennsylvania this form of treatment has been successful in thirty seven per cent of cases of sterility (6) No ill effects have followed this form of treat ment in any of the cases operated upon for either steribty or dismenorthera. This now comprises a large series of cases. It is essential that gonorrhæa and the various forms of pelvic inflammatory disease be excluded CAREL CULBERTSON

[Monograph] Gauss and Lembeke: Deep X-Ray Therapy, Its Theoretical Principles, and Its Clini-Cal Results (Röntgentsefentherapie, thre theoretischen Grundlagen ihre praktische Anwendung und ihre klimischen Frloge) Universitäts I rauenklinik Freiburg Berlin and Vienna Urbin & Schwarzenberg, 1912 By Surg Gynec & Obst

The use of all adapted X ray tubes has been principally to blame for the tardy development of penetrative therapy Soft and medium soft tubes allow of no effective raying of deep lying ovaries Perthes, in experimental work was able to show that rays from hard tubes decreased less in quantity according to the depth than those from soft tubes According to Wetterer's experiments one erythema dose with medium soft rays gives at a depth of 1 cm 60 per cent 2 cm 45 per cent 3 cm 30 per cent, and with hard rays 75 55 and 40 per cent respectively, moreover in the latter case at the . depth of 4 cm 30 per cent and at 5 cm 2, per cent

generally given up, although many authors (II C Schmidt, Berlin) since 1000 speak against the use of hard tubes and filters An increase in the hardness of a tube above 12 We is practically impossible the use of ray filters how ever, affords a different way of producing the same

were found to be still present. The use of medium soft tubes which up to that time prevailed has been

The possibility of increasing deep action in radiotheraps made known by Perthes in 1903 by separating the soft from the hard rays with a tinfoil or aluminum filter led to the determination in 1001 that I cm tissue or I cm water absorbs the same amount of rays as a mm aluminum. Leather or skin filters proved effective only with medium hard tubes. Water and air filters have never been used Among the effective filters may be mentioned glass tinfoil, and silver (v. Jaksch 1000) particularly recommended by Walter was first used to a large extent by Bordier and Cruilleminot According to Guilleminot's experiments a large proportion of the unfiltered rays were absorbed in upper layers and in deep lying tissue very little According to him deep seated tumors require there fore nearly uniform or monochromatic rays

5 mm aluminum filter is sufficient for practical pur Prof Barkla of King's College, London tegards ionization as the principal cause of the changes in substances subjected to X rays the tays work on superficial tissue more strongly than on that which hes deeper. The rays which reach the latter are penetrative and lose the largest part of their energy through dispersion, not through absorption In order to counteract this and to increase the intensity of the acttion and to localize it he proposed injections of a substance which contains a heavy metal This allowed only a small percentage of the rays to penetrate, but transformed them into secondary rays which are more intensely ionizing By injecting into the tissues finely divided bismuth carbonate he brought about thirty to forty times more ionization than in tissues which had not been so impregnated Christen who amplified this method, is able, theoretically, to

cause the absorption of the optimum dose at a given

The experiments of the authors in the technique of filters extends to (1) morocco leather, (2) satrap paper (the skin remaining free from an otherwise present erythema under the kienbock paper, which is made of satrap), and (a) aluminum plates a mm

With a superficial dose of 10X from soft tubes. there was absorbed in the first centimeter without filter 8X with leather 6 2 with satrap 5 5 aluminum a aluminum and leither 35 and aluminum and satrap 13, with hard tubes the corresponding heures were 4 5, 46 3 8 2 2 2 The use of hard unfiltered rays is thus much less dangerous than soft rays and weak filters cannot greatly diminish the danger of burns therefore it is necessary to use strong lifters for real protection of the skin Satrap which as well as leather increases the filter action. is used only to avoid the secondary rays from the aluminum tilter

With the decrease in the injuries to the skin goes hand in hand an increase in the effect to be had in the depth according to the kind of filter ments upon an aluminum model showed that with an application of 10% there was absorbed at the depth of 1 cm without filter 4 3 with 3 mm aluminum filter 2 23 at a depth of 8 cm without blter o 2 with 3 mm filter o 6X Theoretically. one can thus give with the filter \$20X superficially before the absorption of a A takes place in the first centimeter. With this increase we should then get 1 2X at a depth of 8 cm instead of 0 2X, 1 e six times the former dose even without risking erythema With soft tubes (6 to 7 We) without filter there was absorbed in 1 cm 8X, the remain ing 2X was reduced at a depth of 2 cm to 1X, and at 4 cm only 0 5 h was left The expression "dose quotient" signifies the ratio between the quantity absorbed in the depth and the superficial dose greater it is the less is the penetrative effect in the depth In the above experiment the quotient at the depth of 4 cm is 40 and at the depth of 8 it is With four thicknesses of chamois the dose quotient at 4 cm is 124 at 8 cm ∞ with satrap, 11 and or respectively Aluminum filters leave at the depth of 1 cm 7X still unabsorbed, at 2 cm 5 5% at 8 cm o 7% a dose quotient of 5 20 There takes place therefore at the same time with the considerable protection of the skin a large increase in the penetrative dose. With the aluminum plate plus the chamois there remains after the first centimeter 6X after the second 5 5X, and at 8 cm o 7X (a dose quotient of 5 7 - about the same as with aluminum alone) Aluminum and satrap allows at 1 cm 6 8X, at 2 cm 6X, at 8 cm 1 2X 1 e, a decrease in the penetrative action, the dosequotient 6 4. With soft rays a weak filter increases 300

but little the penetrative effect, strong filters in crease it considerably

Unfiltered rays from hard tubes give at the depth of 1 cm 5 5X, at 2 cm 4 5X and at 3 cm o 7X The superficial absorption is thus considerably less than with unfiltered rays from soft tubes but still greater than when the soft rays have passed through a strong filter (dose quotient 22 5) with similar dosage in the depth the unfiltered hard rays allow less protection of the skin and more superficial absorption than the strongly filtered soft rays yet they are better than the unfiltered soft rays With chamois filters at 1 cm we get 543 at 2 cm 433 and at 8 cm o 8X a dose quotient of 23. As one will see this filter has bittle effect. With satrap filters at 1 cm 6X at 2 cm 5X at 8 cm 1 3X 7 dose-quotient of 10 which is somewhat better

With the aluminum fifter at 1 cm we get 7.83 at 2 cm 6 5X and at 8 cm 1 2X a dose quotient of 17 This represents a tremendous increase in the penetrative action with a great protection of the skin. The addition of chamois skin gives respectively 83 63 173 a dose quotient of 33 an improvement upon the preceding. Muminum with satrap gives 83 63 183 a dose quotient of 21 which is even better

Aluminum was chosen because comparative experiments with tinfoil and glass showed plainly its superority (silver is not to be considered because of the soft secondary rays which it gives off) Tinfoil is not at all sufficient for a depth of 8 cm. the dose quotients of aluminum and glass are in the ratio 4 3

As far as the time is concerned which one needs to produce a superficial dose of to\ soft and hard tubes without fifter require 200 and 135 seconds respectively with leather filters 240 and 175 seconds with satran 1260 and 250 seconds with aluminum 1500 and 150 with aluminum and leather 1860 and \$45 seconds with aluminum and satrap 2100 and 350 The stronger and more effective the filter the more time is necessary Hard rays with and with out filter give the desired superficial dose more punckly Hard tubes are thus to be preferred The optimum thickness of the filter was also deter mined by means of the aluminum model tube to We was run at 4 5 to 5 milliamperes at a distance of 20 cm from the model. In the supposition that injuries to the skin are brought about by absorption in the upper cms of the body that kind of ray is the best which is least absorbed in the upper layers With an aluminum plate of o 5 mm 3 8X were absorbed with 1 mm 3 6X 1 5 mm 3X 2 mm 2 6X, 3 mm 2X 4 mm 2X 5 mm 3X 6 mm 2 8X 8 mm 3 5X and 10 mm 3 6X Using hard rays, there was absorbed in the first cm without filter 4 5X with chamois 4 6X with satrap 3 8X with 3 mm aluminum filter 4 5%. This means that o 5 mm aluminum protects a little 1 mm not much more, up to 2 mm a little increase 3 and 4 mm show, however decided skin protective quality which decreases again with the stronger filters With a skin thickness of 4 mm under which a fur

ther injury to the skin is not to be expected there is absorbed with a superficial dose of toX, without filter 2X, with satrap 2X, 0 5 mm aluminum 2X, 1 mm aluminum 2X, leither 2X, 1 5 mm aluminum 1 4X, 2mm aluminum o 5X, 3 mm aluminum o 5X 4 mm aluminum iX, 5 mm aluminum iX 6 mm aluminum 15X 8mm aluminum 15X, 10 mm aluminum 2 5X The best protection to the skin accordingly is between 2 and 5 mm aluminum

The penetrative action is influenced by filters in the following manner With 15 mm filter at a depth of 8 cm the dose quotient is 11 3, with 1 mm 18 with 1 5 mm 15 with 3 mm 66,4 mm 5 cmm 5 6 mm 5 6 8 mm 7 and 10 mm 7 2 The dose at this depth increases with o 5 up to 3 mm from 1X to 15X with a 1 mm filter up to a 10 mm filter it remains 15X However, one requires with a 3 mm filter to obtain 10% 360 seconds and the time required increases with the thickness of the tilter till at 10 mm 600 seconds are renuired. A filtering of the rays with a 3 to 4 aluminum filter

costs least in time and money

Werner found that the action of the X rays is in many ways to be regarded as an influence on the chemistry of the body cells. In spite of this fact the chief point of attack in \ ray therapy will prob ably remain the ovaries though their location is often variable or unknown. It therefore seems necessary to obtain the largest possible absorption of ray units at several different depths. Experiments have been carried out on an elaborate recording apparatus with rhythmical interruption and a ro titing aluminum filter which consisted of segments of different thicknesses making 200 to 250 revolutions a minute. In comparison with experiments made with fixed filters at was shown that the rotat ing filter is better adapted to reach all layers of tissue than is the fixed filter and therefore, the depth of 2 to 8 cm. The best partition of the rotating filter is made with segments of 3 5 8 and 10 mm thickness the skin is also better protected, for only 68X is absorbed in the first cm

Plant experiments were undertaken as well as those with animals to put to the test the difference in action of filtered and primary rays Young bean plants (Vicia faba L) proved in preliminary expenments to be very sensitive to A rays. A series of experiments showed that the plants were much more damaged by filtered than by unfiltered rays, the degree of damage increasing with the thickness of the filter Less damage was done to plants rayed without filter Experiments on tadpoles showed that they were sufficiently sensitive. A definite dose of unfiltered rays which did not kill them proved when filtered to be deadly Animals of the same origin and size being used a strong filter (5 mm) proved to give a relatively low lethal dose With white mice the optimum filter thickness seemed to be between 1 and 10 mm From all these expen ments it seems necessary therefore to use only hard rays if one wants good results in the penetrative therapy

In order to bring about the desired biological effect an increase in the quanty as well as the quality of rays must be made. The limitation on the application of the X-ray caused by erythema led Levy Dorn in 1004 to the choice of several points of entrance, thereby hoping to bring about a summitton of the penetrative action with protection to the

The accondary rays which were described by Rontgen in 1509 and which be explained as a charging of the noiphboring air were also subjected to prejument. A repetition of his interesting work confirmed completely, his observations. This was particularly noticeable when a stronger filter (zinc.) was used to increase the light and thereby the secondary ray absorption, instear of it has rifter referred to by Rontgen. Experiments with tadpoles in a weak colleged solution (it a 2500 on account of the intense secondary rays of the silver) showed that the action of both kinds of rays is increased both within and without the body by the choice of an adventure of the control of the c

In order to make the secondrity rays applicable to pritents a model was made to simulate the body on which experiments were carried out. Two tallow plates 3.5 cm. thick, were useful. Above, and below plates 3.5 cm. thick, were useful. Above, and below tays of the second of the seco

The increase in the ray dose by means of bringing the tube closer to the patient is limited by the erythema li we reckon the intensity at 100 when the cathode is to cm distant the intensity at 15 cm will be 44 44 at 20 cm 25 at 25 cm 16 at 30 In spite of this the misproportion between the superficial and penetrating dose is so great as to forbid bringing the tube too near The ideal focus skin distance, according to Wetterer Dessauer is infinity, for practical purposes a minimum of 1 M which, however with hard tubes would consume a tremendous amount of time Albers Schönbergs struck upon a compromise at 38 cm taking into account that the greatest difference in intensity occurs between 10 and 30 cm (Perthes) The un favorable results with this method led to a spacing off of the area treated into several fields A much more effective means of increasing the penetrative action is to combine the use of filters with the in crease of the points of attack

Werner regarded application of the necessary therefore the second of time not only as possible but as very important. This intensive therapy is amply justified by the failures made by all methods which do not use this principle. Too small a dose brings about undestrable stimuliting effects, and has also the drawback of giving

many more recurrences The great difference in the kind of rays used in diagnosis and in therapy makes necessary a radical alteration in the apparatus itself. Diagnosis requires complex rays, therapy homogeneous In stead of a spark transformer a spark inductor is used to transform currents from low to high tension Continuous action of the apparatus is made possible by a specially constructed regulator, which allows the tubes to regenerate an appreciable pause being made after each induction contact in a flickering The gases in the tubes are thus able to manner maintain a constant resistance to the "closing current" In order to give the focus point on the cathode time to cool off one brings into use, in addition to the mechanical 'record" interrupter, a the hmical interrupter which is placed in the primary current and which can be regulated with long or short pauses according to the condition of the tube used The tubes of Muller model "pene trans ' allow of a decrease in the focus skin distance by special construction, the cathode being placed near the under surface of the tube though the vacuum conditions are maintained The four oldest tubes which are used in the Freiburg chinic and which are still usable show an average use of 80 ' light hours ' under a regular employment of 5-12 milliamperes

Whereas formerly 25 minutes were required to get 160 with 3 mm aluminum filter focus distance 20 cm and secondary current of 3 milliamperes extended to the rhythmeal interruption and 5 milliamperes current only 7 minutes are necessary and with 10 to 12 milliamperes 10 3 minutes in spite of giving up the five minute change in tubes formerly. The data and the increased secondary current damage to the tubes occurs now less often than formerly. The loss of rays which was feared by middle not occur, on the contrary the penetrative effect is somewhat increased.

Concerning the action upon the skin there oc curred with the technique of Albers Schonbergs 1 e 38 cm focus skin distance and 2 to 4 layers of leather liker injuries to the skin in 15 per cent of the cases Using the intensive therapy with a focus-skin distance of a cen the crythema dose of toX could be increased even up to 400 before injury to the skin took place

The end result steeff with the intensive therapy, appeared officer and more quickly than before and was more officen lasting; e, among the ree patients which in the last year and a half received this treatment there is not a single failure. The time con sumed with the old method without filter averaged five treatments in eleven weeks (with alumnium filter, sattings in six weeks). Shrinkage of the myomal stell much doubted by many, took, place myomal stell much doubted by many, took place myomal stell much doubted by many, took place myomal stell much doubted hy many took place myomal stell much doubted in participation of the myomal stell much doubted in participation of the myomal stell much doubted in participation of the myomal stell much doubted and the stellar stella

general feelings of the patient suffer little during the intensive therapy. One can hardly speak of an inordinate itemand on her strength, many patients read, others often enough go to sleep during the treatment. The iso-called "Rontgenkatter" (Kat manusa, and has certain resemblances to the symptoms of dysmenorrhea. It lasts at most from one to four days According to Krinkals so observations it occurs most often when the dose given approaches expected, if this does is much increased in the first six documents of the symptoms of the control of the symptoms in occurs most often when the dose given approaches a considered comparable to the unpleasant symptoms attending operation.

The symptoms of the menopause (flushes sweating dizziness pulpitation etc.) which indicate to a physician the approach of a cure occur less often and are less persistent than in cases treated by opera

The chief advantage of the intensive therapy is a smooth convalescence two to three weeks after the first series the curative action is plannly to be seen an observation which is made alike by patients and their family physicians.

To increase the effect of X rays hyperzemia and painting with cosin have been recommended both methods are however too little developed In order to desensitize healthy tissue, which must of necessity be rayed along with the other the use of compression and cold has been advised as also the exact demarcation of the skin areas subject ed to treatment. Injections of adrenalin appear to be applicable only to fairly superficial tissue up to the present time there can be little said of the anamin produced by high frequency currents and the wire net method of Alban Kohkes. The use of radioactive substances in connection with A rays in cases of myomy and menorrhagia seems to have a future worth considering although a discussion of it here is out of place

of Letter is on the part of the tissues by the V racs of the Colon and a swap is a spalle when ungested of bringing about similar changes (chemical units too of X ray, effects). Bottler, it was a failured form in the tissues, therefore definite substances which bring about specific cell changes are thought was not out of place that one can unfurned one part of the older between the colon and the colon part of the older between the colon and the colon part of the older between the colon and the colon a

The practical application of the penetritive therapy accomplished only occasional results in the cityl days when the general principles of additional processing the processing according to the processing according to the processing according to the processing the processing according to the processing accordi

manded goo light seconds for the application of 1x3. Mibers Schoolings was the first to bring forward a theoretically good and practically useful method for the control of 6 to 8 We at a distance of 3c m with 2 to 3 milliampers. The total length of cost with 2 to 3 milliampers. The total length of cost series was not to be over 18 minutes and the lighest dose on each tree of skin 6 to 7 5 V. He has recently given up his original one field method. The use of many areas of application, which was recommended by the property Dorn, as a systematically bettered the first head of minuted a special plate to the the district of the above the district of the state of the recently because the areas and to make use of the crossite.

The I reaburg clinic has long made use of the cross tire principle. The tube, instead of being placed over the symphysis (Albers Schönbergs), is placed on the right and left sides of the abdomen at an appropriate oblique angle As further places of application the vagina and vulva were used as also was the foramen ischiadicum before which the ovaries often lie Rays are also applied to the back I further use is made of an increase in areas rayed The skip of the abdomen is divided into fields accord ing to the size of the object to be treated, thereby not only are the ovaries affected but the tumor itsulf changes in which have recently been shown by Robert Maser and the secondary rays from it act also on the pyartes In cases of metropathia hamorrhagica a star shaped arrangement of the fields is used whose center corresponds to the fundus uten

The features which characterize the Freduce technique, in contrast to others are, the giving up of the raumthed Homogenität "and the substitution of a quantitative and qualitative increase in the specific Homogenität!). It consists in filtering with 3 mm aluminum a reduction of the focus-kin distance to 20 cm and a crossfire by means of a stiffigure from the methods substitut filter or with weak littler and is absolutely different from methods without the crossfire and smill focus skin distance which curry with them the danger of stimulant auton and deterase the chances of a sure and lasting auton and deterase the chances of a sure and lasting

The oldest method used in Freburg (since 1500)
The oldest method used in Freburg (since 1500)
The older at base and a four distinct of the control of the tagen as the control of the

The technique of Albers Schonbergs was here gladly rined Patients were rayed on the abdomen, at first on one later on several fields, on 3 or 4 consecutive days each time receiving 6 minutes at 3 to 3 milliamperes tubes 6 to 8 We, focus skin distance 38 cm, and the time between series was 14 days. To protect the skin four layers of chamols were used at times covered with infold, the other

parts of the bodl, were protected by the disphragm and tube crue. In 50 per cent of the cases amenor there was obtained, which showed a great advance in the technique Results appeared in about 3 months with the use of 55 light minutes. In the other 50 per cent only obsometorhers was produced. Under a continuouse of the Alberts Schoners and the continuous of the Continuo

As the withdrawal of the patients was probably caused by the length of the treatment and in con sideration of the three relapses the number of fields was increased to seven. The length of treatment in the seven field method was about 3 months some what longer as patients that did not respond to the former treatment were included. The percentage of cures tose from 71 per cent to 76 per cent 5 per cent oligomenorrheea 5 per cent relapses and 14 withdrawals from treatment The average actual time of treatment was 447 minutes. In spile of the important advince which the Albers Schonbergs method brought a cure of 71 to 76 per cent is not satisfactory Since the upper limits of the super ficial dose had nearly been reached it became a question of better protection of the skin and better penetrating action together with a shortening of the time of treatment. To this end the short focus filter method, which was shown experimentally to be so effective was used. With an average dose of 286 V, amenorrhora appeared on an average after 14 weeks here also being included cases which were refractors to the older method. The following results were obtained on those cases which were handled entirely by the new method the object in mind being a reduction of the number of series and of the length of treatment by increasing the pene trative dose With an average of cook no re fractory cases were encountered and the time was reduced to a weeks

The improvement in the apparatus which had taken place during this time allowed the application of a greater dose in a given time, hence an increase in the size of the senes required no corresponding increase in time, the treatment was shortened to 5 weeks, an average of 1480X was given, and the curs were too per cent

The Ronteen therapy formerly primitive, now built up in detail is placed in competition with the operative treatment in cases of myomin and metropathy. Patients whose strength has been much reduced by repeated and continuous harmor have are especially adapted to this treatment and have are especially adapted to this treatment and the second of the contract of the

Rontgen treatment requires 8 weeks with the use

of filters, short-focus and many fields, with intensive therapy, 5 weeks, and at the same time the patient is never reinferred absolutely unable to work. A further shortening of the treatment by using only one series is being tired, up to the present, cure has been brought about in a large number of cases

hymptoms of the menopause were, of course, observed, though they were much weaker than after castration and even after removal of the uterus alone As accompanying manifestations, burns were observed, at first rather often, later, however, with improvement in the technique burns of a serious nature have not occurred even with Titian blond patients there was never a second degree burn Late reactions such as appear in the litera ture are believed to be due to the use of too werk filters, at least the reported late reactions have great resemblance to those caused by soft rays With strongly filtered rays no reactions have been noted over a pariod of 9 months. Since such lasting damage has not been seen after 4 years the clinic thinks itself justified in continuing the treatment along the lines mentioned. The X ray cancer. which still stands foremost in the physician's mind is as every ridiologist knows, a result of chronic dermatitis alone which has been caused by using A rays year in and year out for the patient it belongs to the realm of mythology

Y control of the cross traited up to 0 months ago shows that of 5,5 are cured, the one failure belongs to the Albers Schonbergs method. Of the states there were 45 stmeontrham and ooligomenor-that a whereas with the Albers Schonbergs method ammorative it was never oblitated by somen under 30 years this was accomplished in 2 cases with the intensity therapy and in a spree of time impossible by any other method. This cure of 9,2 per cent is obtained by differing methods while the 42 cases with filter and short focus give a cure of 100 per cent.

Greater demands are made on the better perfected treatment than on the old method with its curred of 50 per cent sarcoma and catenome cases must be earcluded. The danger of inade-trently treating a malaguant tumor is however small for Olshausen reported among 6470 myoma 770 or 12 per cent, sarcomatous degeneration. Among 318 operated cases in the Freiburg clinic, Aschoff could find but 6 or 2 per cent, sarcomata. All uterus tumors which appears suspicious of subjected to a curret tage and were rayed if no malignant condition was found.

According to kronig one should not use the X-ray therapy in cases where the tumor hangs by a pedicle in those in the cervix lumes, in those supported of being gangrenous, in those in combination with carcinoma and in those where, through rapid growth a metrorrhaga type of bleeding, or unsuccessful X-ray treatment one has suspicions significantly and the support of the bladder I and cause acute incarceration of the bladder I and other cases radiotherapy is the method of choice

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Bacon. Pulmonary Tuberculosis as an Obstetric Complication J Am M Ass 1012 by 2107

By Surg Gynec & Obst

Bacon says that every year there are in the United States between 22,000 and 41,000 gravidar with active tuberculosis | The effect of tuberculosis on the course of pregnancy is slight The effect of pregnancy on the course of tuberculosis is dependent on many factors, however of the patient gets through the first three months there is often an improvement in her condition especially when the disease is in its early stages in the puerpenum tuberculosis usually becomes worse even in milder cases phylaxis involves (1) prevention of pregnancy in a tuberculous woman and (2) prevention of infection in a pregnant woman or in one liable to become preg nant, the danger here arising chiefly from a tuberculous husband. He discusses artificial sterilization nermanent and temporary and interruption of pregnancy with methods of producing abortion

The care of the mother and the protection of the child demand professional philanthropic and state co-operation L G Dway

Barchet Pregnancy in a Diverticulum of the Uterus (Graviditat in einem Uteruschvertikel) Monaische (Geburtsh n Grudk 1912 XXXVI No 6 By Surg Corner & Obst

This is the sixth known case of ectopic programs. in a diverticulum of the uterus The patient was to years old. She had borne one child and had had a miscarriages in the fifth month She had menstru ated regularly up to a months before the atypical symptoms developed. While going to bed one night she suddenly was seized with cramps nausea and vomiting Upon examination the vaginal mucosa was blue red the portio stood in front of the spinal line and went over into a tumor the size of a fist. The adnexa were not palnable. The diagnosis was retroflered gravid aterus. It was brought up and held in place by a pessary

Two months later the patient returned and stated that she had been bleeding intermittently during all that time By viginal eximination the uterus was found to be the same size as two months before but a bulging at the right side was plurily palpable Dilation and subsequent digital examination showed the cavum uters to be empty but an appending tumor the size of a fist was palpable curved sound its communication with the cavum uteri was easily made out. The diagnosis was changed to pregnancy in a rudimentary horn or in a tube, and only the operation revealed the true

nature of the case. The tumor was excised and the incision in the uterus sutured. The right tube was not connected with the tumor covered with peritoneum. The feetus was macerated the umbilious and placenta were still present The wall of the sac showed uterine structure

L II SHER

Maxwell Case of Puerperal Eclampsia Treated by Casarean Section Proc Roy Soc M 1912 By Surg , Gynec & Obst 11 43

Maxwell reports a case of eclampsia in a primagravida aged to whom he delivered by Casarean section as she failed to respond to medical treat-She had thirteen fits in ten hours and was unconscious after having the ninth. The operation was performed to end what was believed to be a placental toxemia and was carried out solely in the mother's interests. That the child was saved was regarded as a fortunate and rare coincidence The operation would have been carried out even had the child been dead. He emphasizes the fact that chloroform should not be used in these cases Before closing the abdomen two pints of normal saline solution with 10 per cent of glucose were poured into the belly

No subsequent fits took place and the mother made an uninterrupted apprent recovers 4 considerable drop in the nationt's blood pressure set in after delivery from 165 mm hg to 135 mm Albumin which had never been present in more than a faint cloud disappeared entirely by the third day

The indications which he would formulate for (asarum section in these circumstances are (t) Lits occurring in a primagravida (2) Onset of fits with no sign of the start of labor (1) A rapid succession of fits where consciousness is not regained and coma is deepening (4) Lailure of advance of cervical dilatation after several hours of an expectant attitude with the prospect of many hours' delay before the second stage of labor is reached (5) Absence of any definite signs of improvement after several hours climinative treatment has been carried out

He thinks the operation is justifiable in the pres ence of all five otherwise there is not a definite indication for Casarean section

Blacker in the discussion called attention to the fact that sedatives had not been used to control the fits. In his opinion it is impossible by any operative treatment to improve on the results by the expectant treatment which was employed by Stroganoff in 160 cases with a maternal mortality of only 6 6 per cent and by Tweedy in 66 cases with a mortality of 9 per cent, while Roth has recently published at cases treated in Drevden by Strongnia's method with only one maternal death He did not think. Cæsarean section justifiable except in rare cases in which it was necessitated on other grounds, owing to the high mortality, and refers to the recent paper of J. I Moran in which it costs of Cæsarean section are reviewed with a maternal mortality of 36 per cent and a firstal mortality of 30 per cent. He collected 35 cises of Cæsarean section performed during the versi sooi to 1915 of echampian with a maternal mortality of 123 per cent and a feetla mortality of 192 per cent.

t II Dus

Wallace The Suppression of the Consulsion in Eclampsia Lancet Lond 1912 cleans 1574 By Surg Gene & Obst

The author refers to the most successful methods of controlling the convulsions (1) The chloroform chloral and morphia treatment of Stroganoff of St Petersburg whose reported results are truly asson ishing No doubt the drugs named have in in fluence in the treatment but it should be pointed out that each patient is treated under conditions infinitely more favorable than have ever before been made use of, for she is placed at once in a totally darkened room that is isolated from all possibility of disturbance by external influences. His statis tics of over 400 cases yield a maternal mortality of 66 per cent as compared with the usual 20 to 30 per cent, and a furtal mortality of 21 6 per cent as compared with 30 to 50 per cent (2) The use of hirudin. I ngelmann publishes the results of intravenous injection of hirudin in 14 cases. Of the 14 cases 8 died In 2 out of the 14 the prepara tion seemed to exercise no influence but of the remainder the convulsions ceased immediately in 4 cases after one further attack in a after two in a and after three or four in 1 (1) The author advocates the use of intrathecal injections of solutions of magnesium sulphate (are in administration is needed for too large a dose may lead to a fatal termination by causing paralysis of the respiratory twenty five per cent solution of magne sium sulphate should be employed after sterilization and the dose regulated by the hody weight of the individual patient 1 cc being allowed for every 25 pounds of body weight. He reports two cases only the first recovering after one injection the second DOYALD C BALFOLR

Lichtenstein Expectant Treatment of Felampsia
(Die abwartende Fklampsiebehandlung) Arch f

Gndk, 1912 xeviii No 3 By Surg Gynec & Obst. The statistics of the author's 45 cases and of 193 collected cases from German institutions show excellent results. The author divides his cases into

three groups

1 Sixteen cases of intercurrent eclampsia in which delivery occurred at least 12 hours after the last attack

2 Twenty four cases in which delivery occurred within 12 hours after the last attack The bulk of the article deals with the clinical history of each of the 45 cases Summary thereof

34 primipara, it multipara
Stage of pregnancy when the eclampsia began
Tenth month, 31 cases, ninth month, 5 cases,

eighth month, 6 cases second sixth and seventh months 1 case each puerperium in 5 cases Nature of the delivery spontaneous, 21, operated.

Nature of the delivery spontaneous, 24, operated 21 (of these 4 were mothers of twins)

Prodromal symptoms occurred as follows: Ede mr in 3; cases headache in 2;, optic disturbrance in 4 vomiting in 11 cases and 34 cases were unconscriptions when taken into the hospital 41 43 cases had albaminum; (highest 40 pro mille) Mortality of the childrich isvang at britts 3; (of which 8 died later). Dead at birth 12. Of 36 viable children, ordered

Excluding the one case in which venesection was not mide we have of 44 cases cessation of all symptoms and attacks in 26 cases which is 50 per cent. The first venesection is the most important, about 500 cc of blood being driven. In only a few cases was a second or third blood letting necessary.

The maternal death rate was 11.11 per cent, of the maternal death where due to other causes. Two severe cases of metharmoglo binn min were cured by venesection and 'stroganoif's nationals.

In summing up his article the author strongly advocates that the results from his asses have proven the worth of the expectant treatment by his method of sensection and stronganton farnerss. He urges the removal of 500 cc of blood at the first veneue tion. Is the result of this procedure he claims that many deliverus occur spontaneously, that that that the blood is well as the blood is decreased the number of attacks is reduced that in operaction of the cases no attack occurs after treatment that the mort ultivo of the children is lower and that the material moratist is reduced to 11 per cent. He also urges that the urine be examined several times daily by the 13 borth method.

Since the compilation of the statistics the author had \$5 additional cases of ectimper without a death. This brings his cases to 80 with 5 deaths or 6 25 per cent. During 12 months he had 60 cases and no death. L. W. Saler R.

Schwarz- Mechanism and Treatment of Pincenta Prawia 1m J Oba N 1912 Rv1 974 By Surg Gyner & Obst

Schwarz beheves that no form of placenta prexus as such ever offers a justifiable indication for Cesarcian section and that Brixton-Hicks version in the presence of a virible child should be discontinued because of the fortal mortality. He considers it the deal treatment to tampon the cerus and vagana until a bag can be introduced, but advocates that the bag be introduced below the ovum instead of within the amniotic cavity. N S Heaver

Davis Casarean Section Technique of the Operation by the Small Median Incision Above the Unbillious, with a Summary of Lises for J. Ohig. N. 1. 1912. Ivis Dec. Bis New Come & Ohat

In this article Davis reports a new series of 60 cases with a maternal mortality of a or a to per cent Among the to children resulting a were stillborn and a died before leaving the hospital or a mortality of 11 43 per cent I so of the mothers died of celampsia the day following operation one died of infection who had placents pravia centralis and a dead baby on admission, and one, who had a flattened pelsas and a 12 mound habs died of infec-Viorceps attempt had been made previous to admission, the bibs was dead upon arrival at the hospital Sterilization was done but rarely twice in 147 cases. I wents six times the operation was performed upon patients who had had one or more sections (one had had a among these three mothers died and all the children survived. Davis advocates a small meision made above the umbilious and a small parallel incision of the fundus through which the feetus has to be emptied without attempting to bring it outside the abdomen and no attempt is made to remove either blood or amnione that I which has found its was into the abdomen. In one case a small rupture occurred of a previous section in the 14 11 N. S. Hesses

Peterson The Indications for Abdominal Casarean Section Terms Send Surg of town 10 Doc 1012 By Surg Sport & Olst

In Peterson s paint he stated that the more common indications for this operation were obstructions to labor pelvic contractions abromsomata os irian furnity stemps of the cervit and varing and miscellaneous such as previous ventrofixations and the large size of the child. Other militations were uterine hymorrhiges concealed accadental harmor thage placenta prayer constitutional crises relamp six and contracted pelvis. Probably more Castream sections would be performed for this indica tion than for any other. The operation was imperatively demanded in cases where the conjugata vera measured ? t im or kee and the child was living. When the child was dead and the true conrugate was 6 a cm of under (reafern section was still indicated on account of the danger to the mother of attempts to debuce the craniotomized child through such a small pelvic diameter

He was at present engaged in tabulating the results of any cases of eximpset traited hy abdion inal Castrean section and some very interesting facts were heigh from the U. Not only had the literature been carefully searched and all recorder cases been collected but mmy operation much the solid beautiful to the control of the control the solid beautiful to the control of the most of a few but over zoo operation.

The total maternal mortality counting patients operated upon before the aseptic era was 30 q per

cent, while this was reduced to jit Bpc cent up-the
3/7 patients operated upon since poor see
counted. The 50 per cent mortality archiect is
abdominal Castraen section in the treatment of
cellampais could be explained by errors in the
subjected to the operation who were long-less
spits. These patients did not de from the electrostate of the subject of the subject of the port pullipse.

30 or the operation itself. Many of them periods
because of the poor judgment on the part of the
operators. They would have died even if the operations had not been parformed for ethings.

soon had not been jablotmed for extinguist own had not been jablotmed for extensive financial statement of extensive financial salarian section. The material routality was only a per simility was used to be soon the salarian section. It was supplied in that in 30 cases where operative procedures preceded the Casarian Sextons the material montality was 48 per text the liference on mortality being due not to the eclargest act to the service of the section of the section of the section of the section which is odd the accordance this relation of the section of the section which could be accorded once this relation to the profession.

the profession. The results of shalominal Casastean section for Chimpest so far as the fortist was concerned should be and as a matter of fast were gratisty in the 4-4-5-5 miles. In 17-2-5 miles when the first of the control of the

sons.

These statistics were quoted to about that the list word byd not been sail regarding the place of all dominal Cassieran section in celarpia. It least the statistics in over 400 cases had shown beyond thouse that no one way postfield in demand Cassiera statistics on one way postfield in demand Cassiera statistics with a both statement of celampia by abdominal Cassiera system soft a short statement that the mortality was so high as 100 make it an unpostfishel operation.

1.5. Taken 1.6.

Roberts Casastean Section for Prolapse of Cord in Contracted Petris Proc Res Sa M 1917 St Co. By Surg Gener & Olet

Patient was sent to the hospital with the could brigging out of the signal but pulsating. Frammaton showed that the head was not engaged and that the pelas was contrained the conjugate diagonalis being its in. The certain was only half disted Witer asshing the cord with lived an attempt wis made to replace it with patient in the lane them with the configuration of the configuration of the configuration of the configuration was performed. The child was saved and while the patient ran some temperature she made a good recovery.

President Routh suggested that the taids and spite convalence would probably have been accreded if the Carsarean section had been followed by subtotal hysterectomy. And that it was 3 question whether even apart from pelvic contraction it would not be justifiable to perform Carsarean.

in a "clean" case, if the cord was prolapsed, the child alive, and the genital passages undilated C. H. Davis

Ziegler - Acute Dilatation of the Stomach; Report of a Case Following Cæsarcan Section. Am J Obst, N Y, 1912, Lvv., Dec By Surg - Gynec & Obst

Ziegler reports in detail a case of acute dilatation of the stomach occurring after Casarean section The subject was a young negress with a generally contracted flat rachitic pelvis with a diagonal conjugate of 10 cm who was submitted to section after 8 hours of labor during which there had been but one vaginal examination and that showed complete dilatation just before the section was per formed The patient had eaten a hearty breakfast at the beginning of labor Ether was then given Uterus was delivered before incising it The operation was prolonged by severe asphyxia of the child The patient immediately after operation seemed in good condition Eight hours after the operation her pulse and temperature began to rise and dis tention of the abdomen appeared until 24 hours after, when the pulse was 140, temperature 103° F Bronchitis also manifested itself Shortly after this, large quantities of gas and foul fluid were expelled through a stomach tube Aspiration of stomach was performed Every 2 to 3 hours dur ing the next is days and at longer intervals for another week saline and nutritives were adminis tered freely by the bowel and the foot of the bed was Temperature and pulse returned to normal on the seventeenth day and patient eventu ally recovered N S HEAVEN

Davis Acute Dilatation of Stomach Following Cassarean Section Am J Obst, N Y, 1912 lxvs, 925 By Surg, Gynec & Obst

Davis reports a death 30 minutes after Cesarean section performed because of deformed pelvs. The patient had been in labor 6 or 8 hours had an us skillful anasthesia of changing either and chloroform and had had some pressure directed to the duodenal region by the foratil head to which factors Davis alizabutes the occurrence of the dialaction which became visible towards end of operation as a big, budging distended organ presenting in wound. At the case of the dialaction which were the second of the patient of the dialactic dialac

Bandler Some Observations on Ectopic Gestation, with Report of Earliest Recorded Tubal Ovum. Am J Obst N Y, 1912 Ivi, Dec By Surg, Gynec & Obst

Bandler urges in cases where the history is quite segretary, yet the findings do not aid in the diagnosis of ectopic pregnancy, in view of the great risk the patient runs in case an ectopic pregnancy should be present and should rupture at a disadvintageous time, and especially since many cases of ectopic pregnancy exist and come to runture where previously there has been but some suggestive symptoms and no pelvic findings, that a colpotomy be made for diagnostic purposes. As a routine he prefers this to the long drawn out period of observation often the diagnosis lies between incomplete abortion and ectopic pregnancy a gentle curettement may be performed, and in case this does not clarify the case it is but a slight affair to open the peritoneum vagi-In case that an ectopic pregnancy is present the operation may then be completed vaginally or abdominally as the conditions indicate or the operator chooses In Bandler's earliest tubal ovum he operated because of symptoms suggestive of ectopic pregnancy and found a hæmorrhagic ovary three times the normal size and a bluish but otherwise apparently normal tube. Thinking that he was probably dealing with an ovarian pregnancy, he at first removed the overy and distal portion of the tube leaving behind the normal appearing isthmical portion of the tube. I or better study of pathology he on second thought removed the remaining portion of the tube in which the pathologist later found a small nodule the size of a pea which proved to be the ectopic pregnancy, the ovary presenting but an altered corous luteum. The tube at the seat of the wound measured 5 5 x 5 mm while the ovum did not occupy the entire lumen being but 3 75 x 3 5 x 2 mm The ovum had not reached the stage of em bryo formation. It was represented by several large masses and streaks of trophoderm which lay near the trophoblast There was no true chorion formation Leucocytes were limited to the loose muscular fibers at the base of the ovum and hence were probably not due to inflammatory reaction A muscle septum separated that part of the lumen of the tube holding the ovum from the canal leading to the uterine cavity and was held by Bandler as the causative factor in the origin of the tubal implantation of the ovum N S HEAVEN

Boquel Extrauterine Pregnancy Operated in Labor at Ivill Term with Living Child (Grossesse extra utérme operée à terme au cours du travail avec enfant vivant) Arch mens à Obst e d Gonce, roiz, 177 By Journal de Chrurgne

The patient was a woman of 46 years who had complained of attacks of volent pain during pregnancy. The diagnosis at first was obscure and appendicutis, tabild torsoin and a renal affection were considered, as well as ectopic gestation. A definite decision in favor of the latter was only arrived at in the seventh month, when the supericality of the fertal part was decisive. The fortal mass was so closely connected with the uterus that mass was so closely connected with the uterus that mass was so closely connected with the uterus that mass was so closely connected with the uterus that mass was so closely connected with the uterus that mass was so closely connected with the uterus that mass was so closely connected with the uterus that mass of the control of the

was performed, the foctal sac opened and the child extracted The tripartite placenta had a pelvic insertion and was adherent to the uterus In place of marsupialization the author dissected out the placenta and membranes after preliminary ligation of the vessels in the broad ligament and of such omental vessels as appeared to supply the fortal Certain of these latter anastomoses however, were overlooked and their rupture led to a serious harmorrhage A rubber drainage tube was put in place and the wound closed. The patient suffered at first from the loss of blood but slowly recovered In the course of convalescence a small sponge was passed at the point of drainage. The child at first showed derangement of nutrition but later de veloped normally

The author calls attention to certain points in this case. The difficulty of diagnosis between tubal and mural pregnancy was due to the fact that the first 1 cyst was closely addressed to the terms and that the placenta was attached to this organ whence arose the impossibility of distinguishing between them by clinical methods of examination. There was no deciduoup passed off from the uterus.

In dissecting off the placents and membranes the worked sources of harmorthage are the vessels of the broad ligaments on the corresponding side and the omeratia anatomoses. Boguel claims that the breaking up of the adhesone metal megaboring even the uters of the side of the control of the c

The author's conclusions concerning the treatment of such cases are as follows

"In the case of pregnancy which has arrived close to term, I would propose to intervene in the following manner without awaiting for symptoms of false labor

"First a median incisson should be made which should, as far a spossible, awo dit be placenta second, the sac should then be opened and the child extracted without tension on the cord or on the sac, third the relations of the sac should be determined and if the case appears favorable, notably if the glacenta is inserted toward the plenic portion of the placenta is about the abandoned in favor of the following pro

"In the first place, the preliminary harmousass should be made as complete as possible by finding and clamping off the uterine and the utero ovarian predictes, as well as all visible omental anastomoses care being taken to a void laceration of or tension on the sac. In the second place the placental must first be quickly after which as an astificial strength of the which as an astificial delivery, one membranes should be slowly drawn out, constantly watching to see if they contain any vessels which run into the placental usine. If these are

present they should be clamped. In the that place, the dissection and extraction of the membrane should be completed wherever possible by the use of the fingers rather than with instruments. In the fourth place, a sample strap gaure drain should be used rather than a Miculus. The utility of the former may be questioned, but it felt in place for and has no great in mony remonster a real safeguard and has no great in mony remonster.

and has no great inconveniences
"I have already spoken of the easy expolsion of a
sponge which had been overlooked during the
sponge which had been overlooked during the
course of the operation One should never be
pilted with a large number of small sponges, but with
a few large ones the boxes for these being kept
separate A moment of exitement sometimes
the sponger of the properties of the sponger
at one's disposal is rudimentary and sufficient this
minimation is lacking."

L. Chryster.

Andrews: A Case of Simultaneous Intrauterine and Extrauterine Pregnancy, with Probable "Internal Wandering" of the Own Proc Roy Soc M , 1912, v1, 52 By Surg , Gynec & Obst

Patient aged 29, married five years, two children, the younger two and a half years old, last period July 9, began to have pain September 17, and September 19 lost a large amount of blood per vaginam and passed a small embryo, seen by the nurse but not by the doctor When she entered the hospital September 20 she was blanched and evidently in severe pain pulse 130 per minute. The cervix was dilated and the greater part of an ovum of about two months removed with placenta forceps. The ab-domen was opened and found to contain a large amount of blood The left tube and ovary were normal but on the right side no ovary or tube could be found At the right cornu of the uterus was a rupture making a rough surface the size of a shill ing attached to which was a blood clot containing a small embryo This case is of interest because of coexisting intrauterine and extrauterine preg nancy the extrauterine being interstitial, and in the absence of the right tube and ovary

Cases with internal wandering of the ovum are rare. Wyder in 1886 recorded a case and quotes other cases recorded by Schultse and Hassfurther in 1861. C. H. Davis.

Cobb The Management of the Grave Emergency Cases of Extrauterine Pregnancy. Ann Surg. Phila, 1912 by 835 By Surg., Gynec & Obst

This paper is based on a careful study of 327 estabuly and interstitual pregnancy as the bases chusetts General Hospital from too 100 meters as the study of the control of the control of the the control of the control of the control of the separate cases of raptire with every homorrhage It is regarded as important to control of the tags of certain prominent proceedings in the country who have advased the dangerous method of delay in these cases

The cases have been divided into two broad

- classes 1 The grave emergencies, with sudden symptoms followed by alarming hæmorrhage which cases need operative treatment at once - it is this class to which the writer has paid special attention, the number of which is 36 2 The non emergencies. with less alarming symptoms and signs of varying degree and kind. This second class can be further subdivided into (a) partial ruptures with recurring progressive and slight hamorrhages, (b) tubal abortions, (c) cases of unruptured tubal pregnancy
- A study of all the cases justities the following conclusions
- More than 33 per cent of extrauterine pregnancies occur in young women who have never before been pregnant

2 Salpingitis, or pelvic infection, is not an essential or frequent causative factor

- Most of the cases of complete rupture with alarming hamorrhage occur in the early weeks, often in the first month, these are the cases that are rapidly fatal unless operated on Cases that have gone two months or more are those that furnish the greatest number of non-emergency cases
- 4 Cases of sudden, severe rupture, until signs of marked intra abdominal hamorrhage are present, often simulate other grave abdominal emergencies, with abdominal tenderness and spasm, high white blood count fever, and vomiting
- s In grave emergencies, with signs of extreme hamorrhage, operation should be done at once, without waiting for a possible reaction.
- 6 In the less severe cases of tubal rupture, without signs of marked hæmorrhage, a correct diagnosis is often difficult or impossible
- The menstrual history cannot be depended. upon, many of the most alarming cases had skipped no period

8 The character and location of the pain may vary within wide limits

9 Tubal abortions are nearly as frequent as tubal ruptures Cases of tubal abortion seldom give a history of skipping a menstrual period, but after a history of continued slight flowing or dribbling since

the period A detailed analysis of the cases is made, furnishing interesting statistics 36 were cases of desperate emergency - the left tube was involved in 18 cases. the right tube in 15, 17 cases ruptured early - from three to SIX weeks, 7 cases under four weeks, 6 between the sixth and eighth weeks Temperature was normal in but two cases In 15 cases it was over 100° F. The highest was 102 5° I The leucocyte count was very high in the majority of cases from 20,000 to 45,000, in one case 9500 In 16 cases the onset was sudden, with no warning symptoms In 17 cases some warning signs preceded for from one to ten days In 7 cases there was general abdominal pain from 8 to 36 hours before the acute onset Hæmoglobin estimation varied from 35 per cent to 70 per cent In only 13 cases could a mass be felt by vaginal examination Vaginal bleeding at the onset occurred in only 7 cases. In 10 cases active arterial hæmorrhage was going on at the time of the operation Twenty eight cases recovered, 5 died. Of these latter, two failed to survive the operation, one died of continued hæmorrhage where no ligatures were used, one died of septic peritoritis a week after, and one of pneumonia on the eighteenth day.

In arguing for immediate operation one must take pains to consider only the really desperate cases, and in considering the mortality and estimating the percentages only the deaths due to the operation itself should be taken into consideration, late deaths from pentonitis, pneumonia etc. must be thrown

With this in mind the following statements are

- made I Immediate operation is the method of choice. 2 Delay, even for transfusion, is dangerous and
- fatal, and especially delay with stimulation 3 With proper technique and the use of intravenous salt solution the percentage of deaths
- directly due to operation will be very low 4 In a very small percentage of cases direct transfusion will be needed and will save the small
- number of cases that would be fatal otherwise 5 Direct transfusion should be done after opera-
- tion, not before 6 At present, with the availability of infusion and direct transfusion at is criminal for any operator of reasonable skill to delay CAREY CULBERTSON

LABOR AND ITS COMPLICATIONS

Stookes Spontaneous Rupture of the Uterus and Pulmonary Embolism. J Obst & Gynet Brit Lmp , 1012 xxii 356 By Surg , Gynec & Obst

The patient in this case was a woman of 30 years who had had seven previous labors. Her first four labors and the seventh were normal. The fifth was instrumental and at the sixth there was some trouble with the placenta. The eighth pregnancy went to term and a midwife attended her in labor While vomiting a sudden and severe pain was felt in the abdomen A doctor was called who could make out no presenting part the cervix admitting but one finger Vomiting and pain continued and five ounces of castor oil and two enemata were given in 24 hours Next day her general condition was bad and she was transferred to the Liverpool Maternity Hospital where abdominal section was performed Beneath the peritoneum was found a thin layer of blood and the bag of membranes This was intact and contained a dead child weighing 6 lbs 13 oz The uterus was firmly contracted in the pelvis, having expelled the complete unruptured gestation sac into the peritoneal cavity There was a ragged tear on the posterior uterine surface extending obliquely from about the right tube down nearly to the cervix in the middle line The placental site was on the anterior uterine wall uterus was swabbed out and sutured The abdomen was closed with rubber tube drainage Convalescence was going along well when, on the sixteenth day, pun in the left chest and dyspine a suddenly occurred with increased pulse and respiration. Very hitle air was oriering the lower lobe of the left ling. This persisted for three days after which she improved and was discharged one month after entering th, hospital.

Rongy Indications for Publictomy Internal J. Surg., 1913, xxv. 377 By Surg. Games & Olist

The author is impressed with the development of a relative standardization of method in obstetric surgery during the past decade. Not only the pelvis but the fortal head plays an important rôle in normal labor and in operative delivery pelvis may permit the passage of a small fu tal head during one labor while a larger he id in a subsequent pregnancy will bring about a libor complication In slightly or moderately contracted pelves induction of labor in the thirty sixth week of necessary is not safe for the mother with a feetal mortality practically nil. Craniotoms should be eliminated as a procedure on the living child where the mother s condition is good. In the light of present knowledge high forcers is hardly a justifiable operation. Not only must the lives of mother and child be saved but the maternal morbidity must be lessened. In mist ern work we must consider the effect of the operation upon the mother the effect upon the shild and thirdly the operation from a purely technical and surgical standpoint. Hence high forceps does not appeal to Rongy as being technicilly good surgery For these reasons abdominal Casarean section is an ideal operation if performed early. But after other efforts at extraction such a method is contrained. cated and pulnotomy is only to be considered. Pub. otomy is the only of ration in border line cases that have been mismanaged or misjudged reports six cases of extramedian section performed after the technique of Doderlein in general extract one with the forceps emisiotomy being employed in

In conclusion Rongy states that while his results from this operation were quite favorable he still feels that it must be performed in cases where there is no other alternative. It must also be performed very carefully and if one is not trained in gyne culogical surgery it should not be undertaken injuries to the soft parts and to the bladder and urcthra may be quite extensive. The sacro diac joint may be injured and if this possibility is not borne in mind this will result in permanent dist bility. Hemorrhage may be profuse and at times uncontrollable Communicating vaginal tears take place in a moderate number of cases Publiotoms should never be the operation of choice it is always In cases that have been mis one of emergency judged and neglected with the child still viable it is the only method of procedure but only an experienced obstetrician should undertake its per formance

Under these circumstances publishing has a definite field and does not compete with either Cararran section or high forceps delivery. In cases where Caesarean section is indicated, published is contraindicated, and vice versa. Care Current

Davis: Control of Post-Partum Hæmorrhage by Menns of Manual Compression of the Aorta Cæsarean Section in Placenta Previa. Sut., Grace & O'st. 1912, x. 662 Bi St. x., Grace & O'st.

Momburg's method of compressing the aorta in cases of hismorthing from pilex vessels directed attention towards compression of the abdorned aorta in the tri imment of acute and serious heave things. This method has proven useful in cases of things. This method has proven useful in cases of unputted actions preparation of the normally located pitentia and rupture of the drivens. This procedure soft value in some cases of post partiant harmorthing in the compression of the compression

I multipara in the seventh or eighth month of pregnancy was brought to the Jefferson Hospital in an extremely anamic condition, the result of an uterine hemorrhage. The placenta had separated promaturely Examination excluded placenta As she was being prepared for dilutation of the ox she suddenly collapsed Meter being transferred to the operating table the cerux was quality dilated a hand was introduced into the uterus and the knuckles of the fist were pressed against the aorta near its bifurcation. In assistant gave intravenous infusions of physiological salt soletion and strychnin ergot atropin and digitalia subcutaneously Then the uterus was washed out with a hot anti-optic solution and when the patient had regained consciousness the uterus was tam noned with 10 per cent indoform gauge. The pa tunt recovered

The most extent literature on placenta prevacentrals show some state lite the exaction operation is in such cases. The author suggests that plannia prevale centrals be considered in ectops prignance in that ectops, among the extent attachment of the ocum in an atypical place. The Casacian section decreves the harmorinary lesses placents previous before mother and child are in compactively good condition and no danger of infection from previous tampons is talked.

Of the cast of the

Many authorities agree that the vaging should not be packed with gauze in cases of placenta previa centralis. The authorities a case that ended fatally

A multipara was brought to the clinic after having lost much blood at her home where an attending physician had tamponed the vagina. At the hos pital a Casarean section was made and the child saved. The woman died six days after the opera tion. At autops), a generalized peritonitis wis found, but uterus appendix, gall blidder, etc wire intact, the wound in the uterus being normal in appearance Streptococci staphylococci and coli communis were found in the exudate of the peritoneal cavity. The uterine cavity was sterile portal of entry must have been the cervix which was distended by the tampon of the vagina

PUERPERIUM AND ITS COMPLICATIONS

Wallace: Puerperal Pelvic Thrombosis, Ligature of Left Common Iliac Vein. J Obst & Ginec Brit Emp , 1011, 220, 151 By Surg Come & Obst

Wallace here reports the case of a noman aged 25 who developed rigors and pyrexia on the sixth day after her third parturition Thrombosed veins were palpable along the line taken by the left uterine and left obturator veins. She appeared desperately ill temperature reaching 106° I pulse 160 I xplora tory laparotomy was performed on the 23d day A tortuous vein in the left broad ligament was found to be thrombosed as far out as the infundibulo pelvic ligament. The left internal iliac vein was thrombosed up to its junction with the external The anterior branch of the internal iliae was also thrombosed and could be traced forward and unard toward the uterus Induration could be traced along the left obturator vessels. The surtounding tissues were moist and did not yield teadily to blunt dissection Therefore it was decided not to attempt removal of the thromboard veins but instead to ligate the left common iliac This was done for three days following there were no more rigors and the patient felt better Pyrexia however continued and after the fourth day ngors again occurred the patient ultimately dving from exhaustion. This case is interesting in that it shows the extreme difficulty in dissecting out veins in well marked puerperal thrombosis and as an illus tration of the futility of closing up one set of exits from the thrombosed area CARRY CULBERTSON

Walton and Medalia Hamolytic Streptococcus and Puerperal Septicæmia Surg Gynte & Obst , 1912 XV 652 By Surg Cynec & Obst

We have studied 103 labor cases, ante- and postpartum, with special reference to the finding of hemolytic streptococci in the parturient canal by means of the blood-agar method (Schottmüller), and to determine upon the relation of hæmolysis as an index to virulence, also with reference to the autogenous or exogenous source of infection and the value of a routine bacteriological examination post partum for purposes of detecting "healthy" and "unsuspected" carriers of puerperal sensis

In the 103 cases examined we obtained the following results Ante-partum Before any digital exammation was made we found hemolytic streptococcus in 1 case, 1 per cent, non hæmolytic streptococcus in 21 cases, 20 91 per cent (1s to location, vagina or cervix, see article) Post partum We found hamolytic streptococcus in 9 cises, 8 73 per cent, non hamolytic streptococcus in 17 cases, 16 s per cent Out of the o cases with hemolytic streptococcus post partum only 2 had morbid temperature and 2 mildly febrile temperature Of the 17 cases with non-hemolytic streptococci post partum 5 were found with a morbid temperature and a with mildly febrile temperature (Bacteria other than streptococci (staphylo pneumo b coli, pseudo K I etc) were found in 76 (73 80 per cent) of the roscases ante- as well as post-partum of the 76 were morbid and four were mildly febrile post partum while there were only 5 cases found sterile ante partum and only one case post partum)

I rom the observations just cited we have to recognize the presence of a hemolytic and nonhemolytic type of a streptococcus, and further, that the hemolytic streptococci are not always virulent nor are the non hymolytic streptococci always averagent. The presence of streptococci of either type must therefore be looked upon as capable of causing sepsis. Chinically however the tinding of a bemobile streptococcus would indicate greater severity

Our finding of hamolytic streptococci in 5 afebrile and a mildly febrile also non hymolytic streptorocci in a mildly febrile and 8 afebrile cases. all of which may be considered as possible carriers of infection would have been overlooked without the routine bacteriological examination ing of streptococci ante partum in the 2 cases with morbid temperature post partum due to hamolytic streptococci also the a morbid cases due to nonhemolytic streptococci in whom we found the same organism ante partum would indicate that autogenous or endogenous infection of puerperal sensis is of equal importance with exogenous infection as to frequency but not as to severity of this discase The routine bacteriological examination of maternity cases would seem, according to our findings, to be of great practical value from the standpoint of prophylaxis in detecting "healthy and "unsuspected" carriers of infection and finally extragenital infections with faulty personal hygiene on the part of the patient would tend to increase the possibility of autoinfection as a source of nucrperal septicamia

GENITO-URINARY SURGERY

KIDNEY AND URETER

Roysing. The Diagnosis of Tuberculosis of the Kidney in Very Early and Very Advanced By Surg Corner & Oliva

Rossing says he has found that albumin may be absent in the urine in surgical tuberculosis of the Lidney In all cases of albuminuma pyuma or exstitis a chemical fracteriologic and microscopic examination should be made. He has shown tuber cle breilli in 80 7 per cent of about 200 cases allowing a twenty four hour urine to precipitate and examining the precipitate. Pus in the urine with out bacteria practically assures the presence of tuberculous. He recalls his report of toxic albuminutes in which in soits of albuminusia from the other knines, he extirpated the tuberculous knines with a disappearance of the albuminum given up complicated methods of testing lidnes function in favor of the quantitative urea analysis

By nephrectomy 75 per cent of all patients op erated on can be saved hence nephrectomy is indicated as soon as the disgnosis of unilateral tuber culous is made. He discusses the prognosis and treatment of kidney tuberculous and strongly favors the use of phenol in blander tuberculosis

with I shach's uncometer

Robina Suppurative Pylephicbitis Trans South Surg & Cyne, Ass Ite: 1014

By Surg Cones & Obst

i i. Dww

A case of suppurative pylephlebitis which oc curred in his practice in 1911 was related in detail by Robins In this case Van Cott's vaccines were used, in all, 28 doses were given. It seemed to him that these vaccines caused improvement for a time but finally the patient s abdomen was opened in two places, and it was found that the fluid had become purulent. The patient gradually declined and died after an illness of 150 days

In view of the fact that this milady was usually rapidly fatal and that no plan of treatment had yet effected a cure he thought treatment along this line by vaccines offered the only hope and the apparent success of these vaccines at one time in this case was I S FALBOT IR ZRIZF1UO2R\$

Mason: Acute Hæmatogenous Infection of the

Lidney. Trans South Surg & Gynec Ass , Dec , By Surg , Gynec & Obst In this paper Mason reported three cases and

summarized them as follows --

(1) Acute hæmatogenous infection or septic infarct of the kidneys is of comparatively frequent occurrence and is often overlooked (1) Senous injury to or disease of one kidney acts as a predisposing cause (3) While nephrectomy is demanded in the fulminating type, early diagnosis and opera tion will permit of decapsulation with incision and drainage of infarcts in certain of the milder cases thereby saving some kidneys which would require removal if treated later (4) The relation of mova ble Lidney to the development of septic infarct offers an indication for nephropexy worthy of (s) When exploration in acute consideration supposedly abdominal conditions fails to reveal lesions sufficient to account for the symptom present the possibility of septic renal infarct should be borne in mind and the condition of the kidney

F S TALBOT IR.

Cunningham Acute Unilateral Hæmatogenous Infections of the kidney. Ass Surg Ph L., 191 h: 818 By Surg , Gynec & Obst

ascertained before completing the operation

I he author points out that acute unilateral inflammation of the kidney is a condition which is frequently mistaken for other acute inflammatory discuses within the abdomen, especially appendi citis and gall bladder disease. The disease starts in the kidney by the lodging of from one to a few muro-organisms the usual organisms being the pyogenu cocci and the colon bacillus

The pathological process produced is of two types nest multiple miliary abscess formation, second a diffuse inflimmatory process without suppuration The former type clinically produces a rapid toxerua the picture is that of severe sepsis temperature 102high kucocytosis all appearing within 24 to 48 hours after the onset, which is usually char acturized by a chill and comitting Pain on the side of the affected organ abdominal tenderness muscular rigidity and spasm is found on the af feeted side The abdominal signs are similar to those occurring in acute infection of the appendix and gall bladder for which the disease under con sideration is often if not usually mistaken. The patheg: omonic signs are lumbar tenderness rigidit) and tenderness on the affected side

The urine in this condition is usually quite normal in its gross appearance contains but little albumin and microscopically there is but a small amount of pus and blood cells. The treatment of this form of the disease is nephrectomy

The diffuse inflammatory process in the kidney, without abscess formation is characterized by an inflammatory exudate spreading through the ladney resulting in focal abscesses and a solution of tissue. This type of the disease presents a pathol ogy more commonly the result of an ascending infection, but is encountered as a process of hematogenous origin and results from an infection of the organ, not by the pyogenic cocci, as does the abscess

type, but by the cofon bacillus

The chnical course of this form of the disease differs in severity from that of the abscess type, because of the lesser virulence of the infecting The onset may be sudden as in the former type, the temperature rising rapidly to 102" or more and the leucors tosis is often high

The abdominal symptoms are less pronounced, but tenderness over the Lidney in the costo vertebral angle with some muscular rigidity are constant The chief feature differentiating this form of the disease from that of abscess formation is the lack of progressive toxemia and the presence of

more abnormal elements in the urine

In this form of the disease it is felt that palliation forcing fluids, and the employment of urinars antiseptics, fortifying the patient's strength by a nutritious diet and stimulating drugs, should be instituted at the onset Operative interference should only be undertaken when the symptoms and physical signs give evidence of progression to the point of lowering the general resistance by toxic absorption Favorable results have been obtained by pulliative treatment decapsulation, and by splitting and draining the Lidney

The author gives a detailed account of 8 patients of those two classes of Lidney infection upon which he has operated and mentions the cases recorded by

other writers

Cordier and Mazel. Acute Intoxication from Bichloride of Mercury (Intexecution argue par le sublimé) Lyon méd 1912 CXIX 1023
By Journal de Chirurgie

Cordier and Mazel report a case of a young girl, 10 years old, who attempted to commit suicide by drinking a solution of 21/2 to 3 grains of bichloride of mercury Severe vomiting, accompanied by a profuse diarrhee and abdominal pain was followed by the syndrome of mercurial nephritis Suppression of unne was extreme. The unne voided gave a heavy albuminous precipitate and was filled with all varieties of casts. Uramia soon intervened

Medical treatment failed and on the fourth day of the intoxication a double decapsulation and nephrotomy, according to Leriche's method was The following morning the patient unnated 80 cc of clear urine which contained only a trace of urea. On the second day after the operation she did not urinate, but the dressing was saturated with a liquid of a urinous odor. The patient died on the fourth day after the operation, which was the eighth day of the intoxication

Relative to this case, Mazel reports the case of a young man 30 years of age, who had taken about two grains of bichloride of mercury The stomach was washed out one hour later, and the patient was made to gargle Immediately following this he complained of excruciating epigastric butning and was extremely salivated The following day he urinated 300 cc of urine and had diarrhora On the next day, he eliminated 200 cc of a very albuminous urine which contained many casts On the fourth day of the intoxication, complete anuria occurred A double decapsulation was performed on the second day following this On the same day 30 cc of urine were obtained by catheterization and five hours later the patient passed spontaneously 25 cc Sudden death occurred during the night

At autopsy the kidney showed acute parenchymatous pephritis, congestive subperitoneal ecchymosis of the last 40 cc of the large intestine, and hepatization of the right upper lobe and an ordema-

tous congestion of the left lobe

Nove Gosserand and Gremien studied the lesions of mercurial nephritis from sections taken from the first case reported above and from the post mortem specimen taken from the second case. These lesions show similar characteristics although they were more pronounced in the second case In the postmortem specimen the epithelial desquamation was very advanced, the glomeruli were generally intact, and there was desquamation of the supranuclear part of the epithehum of the convoluted tubules. The epithelial débris plugging the tubes accounted for the anura

It would appear from the above that nephrotomy would permit the evacuation of the tubular plugs and the regeneration of the epithelium, but this operation must be performed early. The authors after experiments upon to rabbits and punca pigs

arrive at inverse conclusions

They demonstrated in these experiments that nephritis results from the injection of bichloride of Following the occurrence of this they performed nephrotomics or decapulsations urines were collected and analyzed every 24 hours and histological examinations were made. In nearly all of these cases they demonstrated lesions of the liver and of the intestinal tract and in short that death resulted from a general intoxication the intoxication was severe the animals died in spite of double decapsulation or upilateral nephrotomy (the rabbit does not bear double nephrotomy) In the severe forms, the results are very doubtful Thus, experimentally the surgical treatment of mercurial nephritis is not satisfactory

R LERICHE

Wilson The Embryogenetic Relationships of Tumors of the kidney, Suprarenal and Testicle Trans South Surg & Gynec Ass., Dec., By Surg , Gynec & Obst.

The basis of Wilson's paper consisted of a study of the pathological specimens obtained at operation and autopsy in the Mayo clinic and a study of the human and comparative embryology of the urogenital system The results of his observations were as follows

Renal tumors (1) Of 92 tumors studied, there

were 3 pelvic papillomata, 4 carcinomata, 1 squamous cell epithelioma, a adenoma a fibroma, 7 sarcomata, a Wolff an tumor, 3 embryomata (Wilms's tumors), and 71 mesothehomata (2) The renal pelvic papillomata and carcinomata apparent ly arose secondarily to chromic irritative processes of the adult pelvic epithelium (1) The rare sourmous cell epithelioma probably was a neoplastic development from the embryonic inclusion within the renal pelvis of ectoderm which had found its way into the lower end of the primitive excretory duct by way of the cloara (4) The embryomata of the renal cortex composed of renal and other tissues, and occurring in young children were according to Wilms derived from inclusions of the lateral embryonic plate within the caudal portion of the nephrogenic cord in the early embryo (5) The most numerous tumors of the renal cortex the so-called hypernephromata or Gravitzian tumors were apparently mesothebomata derived from nephrogenic vesicles which had failed in the early embryo to form a tubular connection with the tenal pelvis (6) Most of the lew true sarcomata of the kidney developed primarily in adult tissue of the renal capsule and involved the cortex secondarily (7) The renal cortex was also frequently the site of inclusions from the mesoncolitos and tarely of inclusions from the suprarenal gland. Rarely if over did either of these inclusions in the renal cortex form mal grant tumors

Address lumous (8) 00 the primary tumors of the adrenal studied, I was an adenoma and the other 2 bypernephromats aroung from the adrenal studied and the adrenal studies of the adrenal content (o). The adrenal content of the adrenal content (i). Microal hypernephromata frequently induced abnormalities of sex and strength (ii). Tumors of the adrenal, in whatever stage of their descriptions of the adrenal content of the adrenal conten

Triticalar (3) Of the 21 tumors of the texture, and the to which is an appossible to study, including all detail wire terminals, the bursty and histography of the study of th

F S TALBOT JR

Nicolich: Hydatid Cysts of the Kidney Opening into the Intestines, hephrotomy, Recovery (Kyste hydatique du rin ouvert dans Intestin, nephrotomie, guérison)

By Journal de Chierurgie By Journal de Chierurgie

Nicolich reports a case of hydatid cysts of the kidney in a woman who five years before hid re

covered from a hydatid cyst of the right lung which had ruptured into a bronchus. The patient was to years of age At the age of sixteen she had noticed a mobile tumor in the right side of the abdomen which had gradually increased in size and hid become painful Seventeen years later pulmonary symptoms had developed which had terminate I with the expulsion of a number of hydatid cysts. In the meantime, the abdomiral tumor had continued to grow and hydatids were frequently found in the urine This tumor lay just beneath the liver, and extended as low as the il ac region. It was almost spherical Cystoscopy showed pus, draining from the right ureteral orifice. Ureteral eatherization on the left side yielded clear urine. In the mean time the patient had an attack of diarrhous in which several successive stools contained hydatids. Ne phrotomy was carried out under spinal armsthes.a. The lower pole of the kidney was enlarged and contaired a cavity full of pus but without any trace of hydatids I few days later, however, fragments of germinal membrane were cast off through the drainage tube. Healing resulted without fetala formation Similar cases are rare. Crausel, in 64. cases of pulmonary hydatid cysts, reports only three in which spontaneous healing followed rupture of the exat into a bronchus and no case of hydatid exst of the kidney opening into the intestines

I TANK N

Stone Hypernephroma of the Kidney. Sur., Gun Selbit 191 as Cet. By Surg., Gync. & Obst.

The difference between hypernephromata and carsomatt as pointed out, the author giving keens definition of the former as tumors aroung from adrend tissue." whether in the normally situated gland or in ectopic fragments has wines a rest. The possibility of the location of the local parameters of the local parameters of up a wide hold for restrictions of the local parameter it as a comparate with other malignant growths but ter the most frequent of all malignant tumors of the kidney and are relatively interasing.

The characteristic symptoms are pain often at some distance marked anomia manifestations of a slight infection with a moderate leucocytosis, exceptionally red cells are present in the urner and rarely a turnor mass is palpible. Metastases are common and most frequent in the lungs liver, bones or line of incision.

Three cases are reported. In the first the patient lived over 6 years after operation finally along of milana. The second cyce had a recurrence in the sory in less thin a year which resulted fatally within a year. The third had symptoms referable within a year. The third had symptoms referable below the left hading.

Journal of the second within the second second for the second fatally and found adherent to the kidney, which was removed. The puttent has remained well for a year.

E & ARMSTRONG

Payne and Macnider: A Study of Unilateral Hamaturia of the So-Called Essential Type. Trans South Sure & Ginec Ass , Dec , 1912

By Surg , Gypec & Obst

Payne and Macnider reviewed the literature on this subject and reported five cases of unilateral hamaturia of the so called idiopathic type, which were relieved of all symptoms by nephrotomy The authors were inclined to believe that in the majority of these cases of unilateral hamaturia the condition was one of chronic inflammation of one type or another, and detailed a series of experiments which apparently excluded as a causative factor rertain developing vascular changes. These experiments would, therefore, apparently contravene klemnerer's theory of angioneurotic ædema and also Albarran's idea of a slight lesion of nephritis being a sufficient cause of the unilateral hæmaturia E S TALBOY, IR

Baldwin and Baldwin: Surgery of the Kidney, Based on Case Records of Ten Years Am J Urol , 1912, viii, No 12 By Surg , Gynec & Obst

This report, based on the case records of I F and Hugh A Baldwin, years 1902 to 1912, embraces sixty seven nephrectomies, 75 per cent of these cases survived the operation, eleven of the fifty survivors have died since, only one honever by reason of failure of the other kidney Four of the women of this series, together with two of a preceding period, have given birth to children Tuberculosis was the cause of thirty four of the nephrectomies, with a primary mortality of 20 per cent Only six of the survivors have died since A study of these cases shows that a nephrectomy with complete recovery does not greatly shorten the expectancy of life

Anchoring of the kidney was done sixty-one times Reports received from fifty-four of these indicated complete success in forty five, great improvement in four, complete failure in five. The Baldwin technique was used, two flaps of the kidney capsule being sewed to a column of muscle derived usually from the edge of the quadratus lumborum

The mortality figures for nephrotomy must always be high, as it is at best a makeshift operation done because the serious condition precludes a more com-

plete operation

Decapsulation for chronic nephritis, in the only case where it was given a fair trial, proved a brilliant success, in four other last resort cases it failed to do any permanent good although it did not hurry the demise A double decapsulation can be done in less than fifteen minutes Decapsulation of the remaining kidney is suggested after nephrectomy, when the urmary suppression is due to acute congestion The possibilities of kidney surgery are great, and the amount of kidney substance neces sary to life is small

Pairchild: Decapsulation of the Kidney. M Ass , 1912, hx, 2234 By Surg , Gynec & Obst Fairchild has collected all available reports in the French German, Italian, English and American literature attempting to arrive at conclusions as to what cases should or should not be decapsulated He found reports of ninety-two cases with definite results from forty-four different operators Sixtytwo patients recovered, thirty died giving a mortality of about 33 per cent About 30 8 per cent of the cases of eclampsia, under any treatment, end fatally He could discover no good results from decapsulation in any case in which the kidney had undergone degenerative changes The results were good in inflammators cases in which the degenerative changes had not gone too far L G DWAN

Siter. Results of Experiments on Kidneys with Especial Reference to Decapsulation and Establishment of Collateral Circulation. Surg. Gance & Obst , 1912, xv, 702

By Surg , Gynec & Obst

As the result of animal experimentation, attention is directed to the possibility of forming new capsule in the kidney after the old capsule has been re-

moved, and the forming of collateral circulation by substituting the omentum for the old capsule The following facts have been proven That the kidney increased in size upon decapsu-

That wrapping the decapsulated kidney in the omentum is immediately successful in forming a new capsule

That collateral circulation is established at the end of ten days

That collateral circulation is sufficient to allow the kidney to functionate properly when the renal blood vessels are tied off

That the Lidney remains much enlarged when the cansule is removed

That forming a new capsule from the omentum prevents adhesions between the kidney and the surrounding soft parts and increases the blood supply

Mayo. The Surgery of the Single and Horseshoe Kidney. Trans South Surg & Gynec Ass Dec. By Surg , Gynec & Obst

In this paper, Charles H Mayo stated that developmental abnormalities of the genito urinary s) stem were very frequent. Of this group, irregularities of the circulation of the Lidney were the most соттоп Their own autopsy records had shown in a single year as high as 4 per cent of cases presenting gross anomalies of the Lidney and ureter of surgical importance That it was necessary for the surgeon to thoroughly understand these anomalies was obvious, from several points of view A knowledge of the early development of the genito urinary system made intelligible the resultant anomalies and various pathological conditions We saw the possible development of congenital cystic kidney resulting from a failure of certain portions of the secreting renal tissues to become united with the collecting portion Wilson had called attention to the probable development of the so-called hypernephromata as neoplastic growths from similarly unattached secreting portions of the kidney

Among 36 cases of gross renal and ureteral anomalies observed in their clinic during five years, 7 were found incidental to other abdominal operations, 12 were of the horseshoe type and 6 of the single or symmetrical type Of 649 operations on the kidneys and ureters during this period of five years there was an average of one serious anomaly associated with disease in every 26 cases. In the horseshoe form, 90 per cent were fused at the lower pole At the point of union there might be only connective tissue (in 15 per cent of the cases) Usually the fusion consisted of renal tissue and varied from a small area to the full width and thickness of the kidney Ninety per cent of cases were fused in front of the great vessels The most common disease affecting horseshoe kidney was hydrone phrosis which might later develop into pyonephro This hydronephrosis occurred in moderately young individuals, while pyonephrosis and lithiusis were usually seen in middle age or later Tubercu losis was rarely seen. More horseshoe kidneys were found in women than in men, and more single kidneys in men than in women When the kidneys were fused by heavy renal tissue symptoms might undoubtedly be present Roysing recently pub lished cases in which the diagnosis was confirmed at operation Despite the diagnostic data which had been given as a rule the condition would not be recognized before operation Braasch indicated. in addition to the cystoscope and radiograph the great assistance of pyelography with colloidal silver injections The lesson to be learned when we did not have absolute data as to the condition of both kidneys, was to always explore the other kidney, usually through a separate incision, before the removal of a tumor of the kidney or the removal of a diseased kidney. In abdominal surgery, where the type of the presenting tumor was questionable the kidney should be palpated before removal of the tumor In some instances transperitoneal incision was indicated. The lateral incision de scribed by W J Mayo would suffice in most cases At operation the possibility of horseshoe kidney must be kept in mind especially whenever difficulty was experienced in delivering the lower pole occurred in the writer's last case where pyonephro sis of half of the horseshoe kidney was present renal tissue nearly the size of the normal kidney. passed in front of the large vessels After examina tion of the blood supply, the fused portion was divided and sutured with catgut In a case of horseshoe kidney, which was not otherwise pathological, Roysing relieved the pain and general symptoms by division of the isthmus E S TALBOT, Te

Stevens. Pathologic Lesions of the kidney Associated with Double Ureters, Report of a Case of Hypernephroma J Am Mass, 1912, hz, 2298 By Surg Gynec & Obst

Stevens reports in detail a case of hypernephroma of the kidney associated with double ureters. He discusses the embryology of double ureter and associated conditions. Except for rare cases of solitary kidney, when a blind ureter may be found on the opposite side, for every ureteral orafice in the bladder there is a separate renal pelvis not communicating with other pelves in the same kidney. He reviews the literature of double ureter.

Harris The Diagnosis of Ureteral Calculus by Means of the Waz-Tipped Whalebone Filiform Boughe Used with the Nitze Cystoscope Surg, Gynce & Obst., 1912 287, 27

By Surg , Gynec & Obst The author explains his method of applying H Kelly's idea of using a wax-tipped ureteral bougie

for the diagnosis and location of ureteral concretions The author uses whalebone filiforms that are carrying an olivary tip, to the latter a wax pearl is attached by dipping it into melted beeswax, in case the operator should encounter an ureteral opening that would not permit of the passing of the olive enlarged by the wax coating, a wax spindle is attached around the shaft of the bougie two or three centimeters from the tip, the most essential point in the technique employed by the essayist is that he does not attach his wax until the bougie is passed through the cystoscope and is made to protrude out of the guiding channel far enough to be introduced into the distended bladder the cystoscope is then guided over the bougie in the same manner as Nitze employed in his "Führungs Cystoscope", before the bougie is introduced into the bladder its wax tip is examined with a magnifying glass in order to make sure of the integrity of its surface In this way accidental scratching of the wax tip is avoided and any scratch discovered on it after the bougie was inserted into and withdrawn out of the ureter can safely be ascribed to its contact with a concretion

The essay ist also suggests never to withdraw the bouge through the cystoscope after the examination is finished but to withdraw the cystoscope alone, allowing the wax tip to remain in the ureter or bladder until the beak of the cystoscope has left the posterior urethra

After the wax bouge is once removed us tip in washed in cold water and then inspected with a magnifying glass. All these technical suggestions mean certainly an improvement in the employment of the wax upped user the majority of wax upped user that the consistency of the wax upped user that the consistency of the wax upped user that the consistency of the wax upped user that the wax upped user that the says of the wax upped user to some and the way of the wax upped user to some and conclusions are concreted in other statements and conclusions are concreted.

He claims for instance that a scratch is the best possible evidence for the presence of a stone in the ureter and that a negative result of a size with the ureter and that a negative result of a clauses. In our concretion embedded in a sacculation of a ureter or a circulus that is so covered with mucus pust and debris that its surface will never come in contact with the was tup that is gliding by? Mosseness with the was tup that is gliding by? Mosseness

Deaver: The Diagnosis and Treatment of Renal and Ureteral Calculi. Trans South Surg & Gynce Ass, Dec, 1912 By Surg, Gynce & Obst

Sixty cases of renal and ureteral calculi were reported Attacks of typhoid preceded the onset of symptoms of stone A catarrhal condition of the pelvic and ureteral mucosa was the chief predisposing factor in the formation of kidney and urcteral stones The initial symptoms were attacks of renal colic, trauma, falls, blows or Licks over the Lidney area Repeated attacks of colic were more frequently due to stones in the ureter Location, type, frequency of attacks and points of reference of same indicated the site of the stone Physical examination in cases of aseptic and uncomplicated renal and ureteral calcula gave no assistance in diagnosis in one half or more of the cases, but was of more assistance in renal than in ureteral cases, because of the presence of a palpable mass in a percentage of cases. The diagnosis was much facilitated in difficult cases by the use of pyelographic methods Tenderness and muscular rigidity were the most

umportant physical signs Microscopic himaturis immediately following a severe attack of colic was suggestive of stone. The skigraph was the most valuable means at our disposal in the diagnosis of unnary calcult. In five of his cases the X-ray failed to find the stone, which in three mistances was found at operation—in the uterter once, and in the kidney twice. The use of wax tupped catheters was said to be in these tare cases the court of hist appeal in diagnostic procedure cases the court of hist appeal in diagnostic procedure. The most frequent causes of ureteral obstruction were either phis solocycal or anatomical

Before attempting any operation it was necessary to satisfy one's self as to the functional activities of the renal tissue, to be assured that the reserve force of the healthy or at least, diseased kidney was sufficient to sustain the renal function in the event of the necessity of nephrectomy, which could not

always be forciold

Shones stuated in the lower terminal (2 5 cm of
the ureter) were removed transsesseally. In renal
calculus the kindery was exposed and if possible
delivered through an oblique loss incision, the stone
was pulpated and an incision made over it and the
stone temoved with forceps. In nine instances
pulpated and the domenstrate the presence of
pulpated failed to demonstrate the presence of
the nicelle. Needing was a practical, harmless, and
valuable procedure a cases in which pulpation that
the total mortality in the operated cases of this
series was 65 per cent. E. S. Taknor, Ig.

E. Taknor, Ig.

Küttner Struma Suprarenalis Hæmorrhagica Bestr z klin Chir, 1912 kxxxi, 291

By Surg , Gynec & Obst

Kuttner describes a case of hæmorrhagic cyst of the suprarenal capsule which he removed successfully by a kulney incision. The patient had none of the symptoms of Addison's disease which have been observed in similar cases. In reviewing the literature, Kuttner finds that his was the only case in which the tumor was removed, other cases usually being treated by what is called marsupilaries to seem given the sact to the skin microsin and palaciate with gainer tampon in microsin and palaciate that the gainer tampon is preferable. As to the diagnoss, the author recommends the use of collarged anjections into the pelvis of the kidney (Veeller), which will, by the X-ray preture, make a differential diagnosis possible between this rar affection and the intermittent by dronephrosis affection and the intermittent by dronephrosis.

CARL BECK

BLADDER, URETHRA, AND PENIS

Lengemann. The Cæcum as a Substitute after hxtirpation of the Urinary Bladder. Zentralbi (Chir., 1912, XXXX, 1697

By Surg , Gynec & Obst

Basing his method upon cadaver experiments of Taddei and a procedure developed by Spannaus, who implanted both ureters into a detached end of the lower ileum Lengemann proceeds as follows

1 The excum the ascending colon and 30 cm of the ileum are divided from the remaining intestinal tract. The proximal end of the ileum is implained into the transverse colon close to its bland end. The appendix is carried obliquely outward through the abdominal wall and its tip removed 2. After an interval of a few weeks, during which time the ascending colon is repeatedly irragated, the bladder is estimpted. Through a small invision in the peritoneum, the shunted portion of the ileum is quilted out and the untertest implained therein. In a surrounding itsue. Closure the exterts from the peritoneum, drainage and tamponade of the wound eavity conclude the noeration.

The course in a case operated upon in this manner was quite favorable. A coprostasis developed in the rectum which caused severe diarrhoea. At first this was interpreted as being due to elimination of a portion of the colon, but digital exploration revealed the true cause Removal was soon followed by normal evacuations The urine at first was cloudy, foul smelling and contained much pus and mucus despite frequent irrigation with silver nitrate, tannic acid, internal use of urotropin and the use of a permanent catheter Injections of yogurtmilk diluted, into the newly formed bladder twice daily to change the bacterial flora, was followed by much improvement within a few days. After a few weeks the urine contained only moderate amounts of mucous flakes The new bladder holds 500 cc Continence is present. The patient prefers a permanent catheter, which is opened as required. to the repeated introduction of a catheter. The procedure meets all demands which may be made

The substituted intestine is free from faces, hence the danger of an ascending infection of the kidney is minimized 2. The ileo excal valve and

the persistless of the portion of aleum offers some protection against relax in case of an implement to excustion 3. The ureteral implements to excustion 3. The ureteral implementation is a series between the control of the control

The method is applicable in the removal of the blidder for malignant growth in many cases of contracted blidder especially in younger individuals and in existrophy of the blidder I t Russia

Martin: The Endoscopic Treatment of a Chronic Incrustated Bladder (Traitement endoscopique de la cystite chronique intrustante). Il Sipi sodice 1911 lit 831. Bly Journal de Chirurgie

The case reported by the author was a woman of thirty three years who had for two years suffered with dysuma of gradually increasing intensity She had noted from time to time the presure of tine unnary gravel There was no history of renal colic, and the region of the kidneys and ureters showed no tenderness on pressure. On the other hand, nam was complained of on pressure over the bladder. The vesical capacity was reduced to 20 The urine was nurulent sanguinolent and contained calcareous particles. The use of the metallic sound showed that there were no vesual calcullying free in the bladder but that the walls of the viscus were incrustated at numerous points tubercle bacilly were found in the urine which however contained numerous organisms usual local applications and lavages had been tried without any apparent effect Sitze & eystoscope could not be employed because of the diminished vesical capacity. The use of I us a cystoscope showed that the vestal walls were covered with a grayish white exudate and at certain points calcu tous concretions could be made out

The first time is employed consisted of duly law agreed is one to a root-sider intritise adoinst "man time to time. In a section copy was introduced and portions of the filst membrane and created wiped off with a sponge stick. The areas thus barred were then touched with a pre-cent subser interest solution. The combined treatment was continued for one month during within time marked improvement coccurred the visual capacity increasing to three hundred centureters.

The author did not find it necessary to leave a retention catheter in the bladder. In his opinion the inconvenience of this procedure outweighed its advantage. The patient was able to return home.

after each treatment.

The author points out the difficulties of endoscopic treatment with Luy's appreatus. The necessity of replacing the light by the forceps when one wishes to mike a topical application frequently results in a displacement of the apparatus.

In the treatment of chronic cystitis, success

depends upon not giving up the case when the functional systems have disappeared unless cystoscopic examination shows that the ulcerative process has completely healed If this rule is not scrupi lously adhered to recurrence of the condition is meritable Possible accompanying renal and ureteral conditions should be investigated by the A ray and by ureteral cathetenzation. In this connection the reflex polyuna which may follow ureteral catheterization, and the possibility of hematuria being due to erosion of the preteral mu cosa by the catheter should be borne in mind in order to avoid misinterpretations. In the case reported, there was a polyuna of three and a half liters and, moreover although the vesical urine after treatment had been instituted never showed the presence of any blood yet the catheter unne from both ureters was found to contain blood cells

SULVA MERCADÉ

Lorthiole: Treatment of Eastrophy (Traitement de l'eastrophie de la vesse) ins d l Soc bilg d

the rose in 455 lly Journal de Chrutge la cases of exstrophy of the biadder, Lorthoun has given up intestinal implantation of the ureters because of the unfavorable lite results lle describes his present method and publishes eight photographic plates which illustrate very clearly the different states of the operation.

The first illustration shows a child of four months exhibiting the classical symptoms of this affection. The anterior wall of the bludder is absent and the mucosi of the posterior wall forms a protrusion on the lateral asycts of which let the apertures of the unterest from which uttne flows drup by drop. The untit has above a complete entered its.

The second picture shows the formation of a channel between the upper portion of the resical mucosa and the vagina with a metal catheter in

The third illustration shows the formation of citaneous flap from the skin adjecent to the vesical mucosa. Liberating innvisors add to the mobility of these flaps and allow of surfacent play so that they may be satured together in the median line without tension. A drainage tube is placed in the stripout conson. A drainage tube is placed in the stagent catheter. The shalling of the hierarchy and the signal catheter. The bealing of the hierarchy incressors is slow, but after a few months the vestor againal channel in wall formed and healing is complete as is demonstrated in this case by a photograph of the stage of the hierarchy and the stage o

GENITAL ORGANS

Moore Prostatectomy, with Special Reference to the Sequels Frans South Surg & Gynec Ast, Dec. 1912 By Surg, Gynec & Obst

Moore stated in his paper that the unsuccessful results of prostatectomy had not been as faithfully reported as the successful ones. The mortality after the upper and lower operations was practically the same in good hands, but the trend of the surgical world at the present time was toward the upper operation. Every surgeon should be professent in both Norther operation was a fit one for nowices to experiment with because both were serious major operations accompanied by some mortality.

In the upper operation instead of cutting through the mucous membrane in the floor of the bladder it was better to crowd the hinger into the internal meatus until the mucous membrane broke, and follow through this opening with the enucleation of the prostrue as taught by the author and first

nublished by McArthur

Conservatism should control these operations but it was not conservative to postpone operation until organic changes had taken place in the bladder and kidness Every general practitioner should realize that when he is first called to reheve retention from enlarged prostate he is assuming a grave responsibility because infection at this time might end fatally in spite of the surgeon's best efforts Enlarged prostate is easy to diagnosticate but an operation should never be recommended simply because there was enlargement \ patient should never be introduced into catheter life without first having had the advantages of prostatectomy urged upon him Old age was not a contraindication to the operation.

The results following prostatectomy were not always satisfactory even in suitable cases Patients frequently returned to the family physician, after having been operated upon in very little better condition than before the operation and sometimes worse Impotence followed the operation in a certain percentage of cases, and until we knew just what caused the impotence we would be unable to prevent it. It was probably due to disturbance to the nerve supply Gangrene of the bladder was an occasional sequel to be prevented by handling the tissues as gently as possible. Careful search for stone should be made at every operation because many times they had been overlooked undoubtedly formed after the operation in some cases This should be prevented by emptying the bladder of blood clots and all detritus. When the bladder was in a reasonably good condition the Cystoscope might be used to advantage, but with a badly infected bladder it did more harm than good,

and catheternation of the wreters was unwarranted. With improximent in our technique urinary fixture were much less frequent than formerly, but were still an occasional sequel in cases that required are usually prolonged dramage. In cases of atony would probably neaturest about lee told that he would probably neaturest about lee told that he catheter after the operation, but that catheteria catheter after the operation, but that catheteria ton would be much easier and more comfortable

Incontinence or dribbling was an occasional sequel after both operations, due to injury to the sphinciers or their nerve supply. To prevent this sequel the sphinciers should be entered as little as

possible, and in the upper operation more careful closing of the wound should be performed. The tendency in the upper operation was toward the more complete closing of the wound.

While present day prostatectomy was one of the most beneficied sperations at our command, the number of failures and sequels was too numerous May not less radical mersuates be better, such as removing the third lobe and dilating the prostatic written through a suprapulse opening, which was accompanied by neither complications nor sequels?

E. S. Taksor 1s.

Pedersen: Adenomatous Hyperplasia of the Prostate Gland. *Med. Rec.* 1912 [xxxii 1162 B₃ Surg., Gynec. & Obst

The author reports a case with operation and possibly consequent chronic suppurative nephritis with calculi in kidney ureter and bladder. The

following are the important features Male white so years old single retired police man family history negative past personal history negative former venered history unimportant Prostatectomy February 1010 by a general surgeon after attack of retention of urine Perincal prostatectoms, usual after treatment, uneventful recovery except for secondary stricture Dilated to 30 F in March, 1910, one month after prostatectomy Discharged cured May 16, 1010 Adenoma with tendency toward malignancy according to pathological report All urinalyses negative. There was a subsequent incontinence of urine except that the patient could start and stop stream at command A permanent urinal was worn Cysto-urethroscopy was negative for definite cause of incontinency Double seminal vesiculotomy for relief of symptoms failed after preliminary cystoscopy which showed moderate custitis and mucus from the right preter Severe cystitis appeared subsequent to the operation. which was caused by stones found in the bladder at a second cystoscopy. Ureteral catheterization showed an obstructed right ureter with pus and blood, normal left ureter Urinalysis negative for tuberculosis and showed slightly deficient urea and phenol-ulphonephthalein excretions right kidnes was almost mactive Radiography revealed several stones in the right kidney, a large stone in the right ureter near the bladder and two in the bladder Radiography previous to the seminal vesiculotomy was not conclusive, showed no stones although plates seemed perfect tion March 24 1912, stones removed from ureter. kidney and bladder in the order named within about two hours, considerable shock relieved by stimulation returned to bed in fair condition, excretion of urine resumed, death at the end of thirty hours with pulmonary symptoms, seemingly em-Pathological report showed chronic suppurative nephritis of the right kidney in multiple foce and with multiple calcult, left kidney showed chronic diffuse nephritis Tive stones were recovered from the kidney one large and five small ones from the ureter and a small mass of crumblings from the vesical cylcult after the litholopaxy. The article is accomptined with photographs of the ray picture the stones the gross specimens of the kidney and the sections

Schmidt: Conservative Surgery of the Testicle.
Beste v klin Chie 1912 laxan 36
lly Surg Conce & Obst

Schmidt has investigated experimentally several important problems connected with the surgery of the testicles. He first studied the fate of the testicle transplanted into the abdominal cavity in voung dogs as regards function spermatogenesis and atrophy. In the literature a number of cases of retained testude with mature spermatozon in the ejaculate have been recorded Rarely sperms have been found in a double eraptorchid. In most cases spermatozoa were absent both in the ejaculate and histologically. In the cases of abdominal testick reported no authentic instance of spermatogenesis is at hand. Since Kizzoh's first report in 1855 a number of cases have been reported in which the testicle was replaced from the inguinal canal into the abdominal cavity No malignant changes occurred. On the experimental side the testule has been successfully transplanted into the abdominal casity in most laboratory animals. Schmidt has reneated the experiments of Stilling and Steinach in young dogs by putting the testick into the abdom inal casus both with the attached tunica saginalis and processes varinalis and without these attach. ments. In dogs before the stage of puberts the testicle though transplanted did not atrophy previ ously but developed to the stage of the spermato CALES Then degeneration gradually took place After a months only Seriolis cells could be found with some degenerated spermatogonia The testule as a whole was atrophied irrespective of its separa tion from the processus vaginalis or its tunical These undings agree with the choical observation that eryptorchid testudes are relatively well preserved in young individuals. The cause of the atrophs of the transplinted testicle is unknown Schmidt is inclined to believe that traums and the variable pressure to which the testule is subjected in the abiliominal cavity are the principal factors

In practice we learn not to expect spermato genesis in the normal textule transplanted into the abdominal cavity, but only relief of symptoms. There appears to be but slight rived or mighans degeneration. In a woing individual the rationed testified should in flowible be replied in the strotum before the different year. There is no absolute that the proof, however, that a door relief with the proof, the property of the proof of the institute of the power of sperma topic constitution.

Schmidt investigated the results of implanting the ductus deferens in the testicle. It has been found that spermatocytes are present in the tastick years sitter (obsure of the ducts deferent and even in congenital absence of the duct. The function of the testicle is not disturbed rather by closure of the ductus deferent so the state of the state of the state of the ductus deference or by entirpation of the repulsion are greater of the testicle in operating for tuberculosis of interpolations, but the principles of the testicle in operating for tuberculosis of the principles of the testicle heads without scar for mattion in voung dogs. In older dogs the scar is very sight. Occasionally there may be impay from slight hemoretages but the whole of the principle in so not affected and the development of principles in so it affected and the development of

the testicle is not disturbed Hardenhouer in 1886 first suggested the conservative surgery of the testicle in tuberculosis by making a reservoir for the secretion of the testicle out of the resected ductus deferens. Since then numerous attempts to effect an ansatomosis between the ductus deferens and the testicle have been made Bolzer in 1831 first attempted a direct union of the duct with the tubules of the rete testis. In dogs the anastomosis of the deferential duct with the rete testis gives uncertain results. In practice after extirpation of the epididymis for tuberculosis the implinitation of the severed duct into the rete testis is in idvisable because of the injured vessels and nerves. Direct implantation into the bods of the testicle gives the best results. In dogs Schmilt has attempted the implantation of the duct into an opening in the testicular substance with a fine silk thread and also without any thread to anchor the duct. In 21 observations not a single direct communication of the duct with the seminiferous tubules could be demonstrated. The newly formed con pertuse tissue formed an impassable barrier between the two In two cases in Inderlen's clinic in which an implantation into the testule was made there

was no functional teturn The value of the interval secretion of the testicle for the organism as a whole is a sufficient indication for the conservative surgery of the testicle. This interval secretion is supposed by some to be related to the interstitual cells of the testicle. After V ray exposures it has been found that the sperm pro ducing cells are destroyed while the interstitial cells are preserved. The fact that the interstitual cells are preserved in the abdominal testicles is of consider able importance to the individual. Schmidt has found that following \ ray exposures to the testicle the adrenal and hypophysis were histologically unaltered while there was a slight increase in the LENIN P ZEISLER weight of the hypophysis

Herbst The Surgical Treatment of Chronic Seminal Vesiculitis by Vasostomy J 4m M for 1912 by 142 By Surg Gyace & Obst

Herbst concludes his paper with the following

 Symptoms referred to the bladder and prostate are frequently relieved by vasostomy 2 In certain cases vasostomy has reheved symp toms ascribed to enlarged prostate, just as did castration years ago

3 Vasostomy is especially indicated in cases in which we have to deal with either a partial or a complete occlusion of the ejaculatory ducts

4 This operation gives a fairly high percentage of cures in a class of cases which must either be relegated to the incurable heap or be subjected to a far more dangerous and difficult surgical procedure

L G DWAN

MISCELLANEOUS

Bonnet: Melanutia in Melanotic Tumors (De la mélanutie dans les tumeurs mélaniques) Lom chir, 1912 viu, 582 By Journal de Chirurgie

Melanuma, so called by Lannec, was described by Easelt in 1861 as a symptom of melanotic tumors The majority of authors confirm this opinion and attribute the dark discoloration of urine, when exposed to air or submitted to the action of oxidizing agents, as of great diagnostic value Virchow and others, however deny that this sign is pathogno mome. The urine may be very dark on emission, but this is unusual. It changes in air and in light, but does not become completely black, as is stated by the classic writers To obtain this coloration it is neces sary to add several drops of a reagent, the best of which is nitric acid added to the urine when brought to the boiling point, perchlorid of iron, or the mixture of two parts of chromic acid and one part of sulphuric acid

The origin of this special coloration of the unne is discussed. Virchow, Senator, and Litten attributed it to the presence of indican and believed it only exited when there were netastases in the liver Pribram, Morner, kobert and Helmann believed it was caused by a special pigmentation similar to the melanin in tumors, which was found in the unne in

the state of uncolored chromogen

In reality melanuria is of little value, because it is inconstant and very fare (in fifteen personal cases of melanotic tumors, Bonnet only found it three times). If may also exist aside from melanotic cumors, in certain intoxications, infections osteomalica secondary cancer of the liver [Bonnet 5 cases], angocholius lymphadentis, and after the absorp-

tion of certain drugs.
It's appearance is lite, and most authors think it disgnostic of generalization of the discase and the disminution of metastates and believe with Newveu, or the contraction of the discase and the discase of t

opinion, because in the three cases where he found this symptom the liver was invaded and he observed four other cases of cancer of the liver which were non melanotic CR LENORMANT

Boggs and Guthrie The Bence-Jones Proteinuria in Conditions Other than Myelomatosis: an Instance Associated with Metastatic Carcinoma. Bull Johns Hopkins Hoop, 1912, 2019, 353 By Surg., Gynce & Obst

The authors make the observation that while Bence Jones proteinant is usually associated with multiple myeloma, the relation is not constaint. Also that the Bence-Jones protein has been found in conditions other than multiple myeloma. To support these contentions they have collected a number of cases from the literature, and also record a case of their own of metastatic carrenoma in which the presence of the Bence Jones body in the unne was demonstrated in or case and protected authority of the condition of the case of the condition of the case of the second authority of the conditions of the case of the condition of the case of the second authority of the conditions of the case of the c

In collecting their material they were struck by the fact that all the cases of Benre-Jones proteinum have one point in common, namely, more or less extensive involvement of the bone marrow. They observe that the relation of multiple myeloma to Benre-Jones proteinums cannot be specife, for other disease processes involving the marrow may lead to the excretion of this numulai body.

The authors believe that there is much to commend in the suggestion of Hopkins and Savoy that Bence-Jones proteinura be viewed as an intermediary metabolic anomaly analogous to cystinuria

and alkaptonuna but occurring at a higher level.
They believe that it is possible that the bone
marrow has some function in connection with the
endogenous metabolism of proteins, which may be
disturbed by any one of a variety of disease processes
and produce this unusual body in the urine

GEO E BERRY

Savidau Exploration of the Kidneys in Urinary Surgery by the Determination of Nitrogen in the Blood and the Constant of Ambard (L'exploration des rens en chrurge urnaire par 1 azotéme et la constante d'Ambard) Tèle de l'aris, 1912, Nov By Journal de Chrurgie

In this thesis inspired by Prof Chavassu, the author studied the value of urea in the blood and of Ambard's constant as a means of examining the function of the kidney in utinary surgery

To determine the urcc function of the kidney, according to the work of Ambard, two methods existed one, the study of urca in the urine, the other, the study of urca in the blood. By these two methods it is impossible to determine exactly the functional value of the kidneys. Considering the functional value of the values; a Considering exercised in 24 hours of the form the cold quantity exercised in 24 hours of the form the cold quantity exercised in 24 hours of the form the cold quantity exercised in 24 hours of the form the cold quantity exercised in 24 hours of the form the consideration of the form the cold of the figures of 30 grams for the total amount, or 70 to 32 grams per thousand of ures concentration, because

the total amount is increased or diminished by an alimentation more or less rich in nitrogen Besides. the concentration aside from tubular lesions de pends not only on the quantities of water ingested but also upon alterations in the glomeruli In other words, urme can be natery because of a diminution of urea by disease or an increase of water by heavy drinking It can also be very concentrat. ed because the glomeruli (the filters) are diseased while the tubules functionate normally. Thus the exact state of the kidneys is not indicated. There is also a source of error in considering the secretion from each kidney

By examining the secreted urines we can tell which is the better kidney but not that the better kidney is a healthy one. The study of urea in the blood should give more precise information. The method of Widal and Saval is of value only if the nitrogen intake remains fixed but because of the difficulty of calculating it the amount of nitrogen in the blood only is measured and thus a source of error is introduced. A comparative study of the urea in the blood and urea in the urine using the constant of Ambard gives us a more precise method according to the author of determining area func-

First in healthy kidneys there is a constant relation between urea of the blood and the total output of urea. Second there is a constant relation be tween the quantity of urea for a given time and the concentration of the urea (quantity of urea per litre)

It is necessary to study simultaneously three factors to determine the secretion of urea the urea of the blood (LR) the total output of urea

(D) and the concentration of the urea (C) In studying comparatively these three terms UR D and C Ambard has been able to formulate the

following three laws Law t When the kidney excretes area at a con stant concentration the output (D) varies pro portionately to the square or the concentration of the urea in the blood (UR1) This first law Ambard determined by a series of experiments in which he saned the quantity of nitrogen (urea) taken in maintaining constant the urea concentration by simultaneously ingesting water, This law can be formulated as follows from two experiments in which the terms UR: D: C; represent the three terms of urea secretion in the second experiment

$$\frac{\mathbf{D}}{\mathbf{D}} = \frac{\mathbf{U}\mathbf{R}^{1}}{\mathbf{U}\mathbf{R}^{2}} \text{ or } \frac{\mathbf{U}\mathbf{R}}{\mathbf{U}\mathbf{R}_{1}} = \frac{\mathbf{v}\widetilde{\mathbf{D}}}{\sqrt{\mathbf{D}_{1}}} \text{ or } \frac{\mathbf{U}\mathbf{R}}{\sqrt{\mathbf{D}_{1}}} = \frac{\mathbf{U}\mathbf{R}_{1}}{\sqrt{\mathbf{D}_{1}}},$$

which equals a constant figure is designated by the symbol K This is the urea constant. The con stant of Ambard is then the quotient of the urea of the blood multiplied by the square root of the uri nary output of urea

Lau 2 When the patient passes urine with a variable concentration of urea (the concentration in the blood remaining constant) the total output of urea is inversely proportional to the square root of concentration of the urine To vary this law it

is necessary to renew the urea by ingestion in proportion as it is taken out of the blood (a more delicate procedure)

However, this law, after two experiments done on the same basis resolves itself into this formula

or what is the same thing

Law 3 When the concentration of the urea in the blood is variable and the concentration of the urea in the urine is also variable, the urea output varies in direct proportion to the square of the concentration of the urea in the blood and in inverse proportion to the square root of the urea in the urine This law is the result of the two former laws and is easy to verify

The first of these three laws is the most important. since it was the one which permitted Ambard to evolve the constant, $K = \frac{UR}{J\Omega}$ the concentration of

the urea in the urine remaining constant. This concentration however, rarely remains so, and necessitates a correction of the first formula by o times the square root of C Corrected it can be written as follows

$$R = \frac{UR}{\sqrt{D} \times \sqrt{\frac{C}{N}}}$$

The number 2 represents the urmary concentration.

25 DET 1000 The weight of the patient must also be taken into consideration because an individual excretes more urea the more he weighs. The formula of Ambard was established on a patient of 70 kg so a correction must be made by multiplying by $\frac{70}{D}$ (P being the

weight of the individual of whom one is seeking the constant)

The exact formula will then be

$$K = \frac{UR}{\sqrt{D \times \sqrt{\frac{C}{15}} \times \frac{70}{P}}}$$

The value of this constant varies between 0 0,0 and o ozo Between these limits the urea function is assured. It is easy to verify this constant by determining successively a large UR D, and C on different normal subjects and correcting for weight

The urea constant according to Ambard is only a figure giving the relation of the urine of the blood to the square root of the urea output (excreted at 25 per 1000) This urea constant defines the func tional value of the kidney for the excretion of trea

When the patient has a constant two or three times larger than normal it signifies that the patient would have to accumulate two or three times more urea in the blood than a normal individual if he excretes the same quantity of urine

TECHNIQUE

r. Clinical The patient is kept in bed during a definite period, one half hour, and the urine and blood obtained To obtain the urine, the patient is caused to urmate, the last drops being carefully collected, or he is catheterized to insure perfect evacuation To obtain the blood, the patient is incised and the cupping glass is applied to obtain sufficient quantity to give 20 cc of serum

2 Laboratory The urea of the blood and the urea of the urine are determined From this is calculated the amount of urea per litre of blood and the quantity of urea per litre of the urine are designated by UR and C, and the quantity of urea in 24 hours by D The patient is then weighed We now have all the terms necessary for the formula of Ambard for determining the figure which repre-

sents the constant of Ambard

In the second part of his thesis the author takes up the clinical study of renal function, using this constant, and arrives at the following conclusions

When the urea in the blood is normal the constant oscillates between so and 75 cg clusion can be drawn that the function of the dis eased kidney is taken up by the helping one and

operation can be undertaken

2 When the urea content of the blood is markedly higher, attaining 120 cg or more, the conclusion is drawn that both kidneys are diseased and surgical intervention is not advisable. In intermediary cases the compensation of the normal kidney for the diseased one is not perfect, but only approximately

The constant permits of estimation of renal function in affections of the ureters and operation is possible if it is found sufficient. In affections of the prostate there are three groups of cases first, those in which the urea content is lower than 50 cg and the constant lower than 100, these cases should be operated Second, those in which the kidney function is mediocre, the urea content of the blood being so to 60 and the constant about 150 Lastly, those in which the kidney function is bad in which the urea in the blood equals I gm and the constant 200 and more These cases should not be operated Finally, the author studies the action of the constant from anæsthetics, permanent and urethra catheterization and nephrectomy

Conclusions Anæsthetics and ureteral catheterization definitely change the urea function of the kidneys Permanent sounds markedly improve the condition In nephrectomy, after the operation the constant is raised (due to chloroform), but soon becomes normal When death follows nephrectomy it is due to urea insufficiency of the kidneys, with PIERRE CRUET

a constant about 120

Vedel and Baumel: Extragenital Soft Chancres (Chancres mous extragémitaux) Montpellier med . By Journal de Chirurgie tore, xxxv. c8r.

In spite of its contagiosity and inoculability, the soft change rarely shows itself outside of the genital Therefore it seems interesting to give a résumé of the four following cases observed by the

authors

Case 1 A man, 23 years old, had a soft chancre on the frenum of the prepuce and three ulcers on the antero median aspect of the right leg It develops in the history, that after the appearance of the genital chancre, the patient had fallen on his knee causing a sheht abrasion of the skin, and had also been struck on the antero-median aspect of the same leg, with two small resultant abrasions At the site of these traumatic abrasions, ulcerative necrotic inflammatory processes developed. It is probable that this man, while treating his soft change, also treated the wounds of his leg and inoculated these latter with bacillus of Ducray The pus from each of these ulcerations on the leg and an inoculation on the lower portion of the right thorax developed a typical inoculation chancre. All these chancres healed under the combined influence of heat neroxide of hydrogen, tincture of jodine, jodoform powder.

and several applications of the thermo cautery CASE 2 This was a man who entered the hospital because of an ulcerated purulent wound of the second finger between the middle and terminal phalanges There was a deep ulceration, with scalloped edges and with abundant pus and tissue débris The existence of this ulceration concomitant with two soft chancres of the prepuce suggested that this was an ulceration chancre by inoculation The bacillus of Ducray could not be found as it could in the preceding case, but the healing of this chancre resulted in an elongated cicatrization and was accomplished by the same therapeutic measures as in the preceding case

Case 3 A man 25 years old had a chancre the size of a 25-cent piece on the calf of his leg, which had developed from an insect bite - very probably from scratching with a sponge. He had inoculated at with the pus from a soft chancre on the penis Treatment todoform and thermo cautery
Case 4 This was a young man who came to the

hospital with a subpubic ulceration coincident with a soft chancre of the prepuce on the upper part of the penis There is no doubt that this is a case of subpubic soft chancre produced by secondary inoculation of chancre of the penis

The absence in these four cases of inflammatory reaction in the glands which drain the regions of the

site of the secondary inoculation is worthy of note I DUMONT

SURGERY OF THE EYE AND EAR

EYE

Fox: Trachoma and Its Sureical Treatment. Ophile Ret . 1912, xx1,659 By Surg Coner & Obst

In many chronic cases it is impossible to eradicate the disease without operative interference, and of all the methods which have been adopted the most successful in the hands of the author has been the grattage operation. The operation is performed in the following manner The upper eyelid is grasped along its margin by means of Darier's forceps and. the edge being turned upon itself, the lid is everted until the retrotarsal fold is brought into view horn spatula should be inserted beneath the lid to protect the cornea. The exposed conjunctive is first thoroughly scarified with a three bladed scari ficator The granular tissue is then scrubbed with a toothbrush which has been steened in a corrosive sublimate (1 1000) solution just before being used

Immediately after scrubbing the part is washed with a solution of the same strength portion of the hd is now unrolled and the scarifying scrubbing and washing repeated until the whole of the palnebral conjunctiva has been subjected to the treatment If the lower lid is involved in the trachomatous process, it should be treated in exactly

the same way

In the soft gelatinous variety of granulations the author has found that by using ordinary gauze sponges he was able to smooth down the elevations and clean off the conjunctiva of both lids leaving it perfectly smooth so that in a few days all evidences of the trachoma have disappeared Especial care has been observed to reach the forms and every other portion of the diseased surface. An antiphlo eistic lotion is applied over the lids in addition to cold compresses day and night The pritient is put to bed and the eye pads are kept saturated for two or three days If the operation has been properly carried out the results are exceedingly gratifying, and it rarely happens that the operation must be repeated on the same person proving that a rein fection seldom takes place. The author feels con vinced that this disease is a curable one, and that a modification of the immigration laws should be made in certain cases, especially where father and mother are free from trachoma and possibly only one child of the family is attacked This child under proper treatment, can be cured, and should not be deported as the present law demands

In many cases of trachoma the swollen condition of the conjunctiva and cartilage prevents the free movement of the eyeball, and by exerting pressure produces pain and aids in the formation of pannus Slitting the cartilage on the conjunctival surface by Burow's method relieves this pressure and avertaits consequent danger

Paton: Case Showing a Modification of Herbert's Flap Operation for Chronic Glaucoma Proc Roy Soc M , 1912, vi 28

By Sure . Gynec & Obst. The conjunctival incision is made 5 to 6 mm from the limbus and the conjunctiva lifted toward the cornea The narrow keratome is inserted about a mm from corneal margin, being held between a radial and tangential position, but nearer tangential After the keratome incision is completed, the bluntpointed Lang's needle knife is inserted, carried to one end of the incision, and a cut is then made obliquely forward toward the corneal margin, so that it finishes very nearly opposite the end of the



Flap turned out and lying under conjunctiva Fig. 1 Flap turned in and lying in anterior chamber

keratome incision. A small radial cut is then made from a point toward point c These three cuts map out a triangular flap held only by one tiny point of attachment at c If this is cut through, the same effect is produced as in simple trephining. The aim, however of the operation is not to cut through this, but to leave the flap attached and (a) either ease it out under the conjunctiva as in the right eye of present patient or (b) turn it into the anterior chamber as in the left eye

Lamb The Rational Method of Removing Fragments of Iron from the Interior of the Eyeball Ohio St M J , 1912 viii, 610

By Surg , Gynec & Obst. There are many objections to the use of giant magnets in removing particles of iron from the eyeball.

 The patient's head must be moved while the instrument remains stationary

2 A spicule of iron, drawn forcibly to the pos terior surface of the lens, may perforate it and produce traumatic cataract

The suspensory ligament may be torn and par-

tial dislocation of the lens result. 4 Entanglement of the spicule in the ciliary proc

esses may occur, with consequent difficulty in removal

Why, then, subject the eye to all these dangers when a simpler method avoids them?

An incision through the sclera in the lower and outer quadrant of the evehall and the application of the comparatively small magnet of Sweet will remove the fragment of fron with much less damage to the eye than the use of a grant magnet applied to the center of the cornea according to Haab's method.

That portion of the eveball from just back of the ciliary processes to the ora serrata is very tolerant of operative procedures, heals quickly, does not participate in the visual function, is easily accessible from a surgical standpoint, and there are no important nerves or vessels likely to be injured. It therefore forms the ideal location for opening the eveball for the removal of foreign bodies

Nettleship. Sarcoma of the Chorold of Unusual Chronicity. Proc Roy Soc M , 1912, VI, 1 By Surg , Gynec & Obst

Nettleship reports a case of sarcoma of the choroid in which the clinical history of the case extends over

a period of 26 years The patient was first seen in 1886, when he was 51 years old Vision 6/6 in right, and 6/6 in left, with a minus cyl P p 11 in in right and 13 in left Fundus recorded as normal One year later, right 6/6, left 6/12 Patient said print looked "crooked and squeezed up " Vision improved with a +o 50 cyl and the ophthalmoscope showed an oval area about the size of the optic disc, below Y S of altered choroid consisting of a dark center surrounded by a pale zone, the dark part had a uniform dull, grayish black color with soft edges passing gradually into

Two years later the soot like smudgy center and pale zone had not changed The patch did not appear to raise the retinal vessels which passed over it

When seen 17 years later, vision 6/9 and a reddish gray, rounded mass was seen with a 10 D suggestive of sarcoma One year later, vision 6/18, and the next year 6/36, the localized unpigmented mass now being 2 or 3 disc diameters in size No painful sensations were present in the eye. When seen in 1911 by Mr Lawford the eye was glaucomatous, nothing could be seen behind the lens and the eye was excised

Microscopical examination showed an unpigmented spindle cell sarcoma Nettleship has records of some 16 other private cases of smudge mark in the choroid, only a few of the cases were seen

again, and those not over a long period of time, so he could not tell the ultimate result

He reviews the reported cases of minute sarcoma of the choroid, there being nine or ten in the past decade, in which minimal sarcomatous growth has been discovered accidentally in the examination of the eveball after death In Kipp's case the rather rapid increase of a small uncomplicated patch at the fundus led to removal of the eye

C G DARLING

Auerbach: A Case of Afebrile Sinus Thrombosis and Cerebellar Abscess Complicating Acute Oticis Media in an Adult. Laryngoscope, 1912, By Surg , Gynec & Obst. XXII. 1367

This case illustrates the difficulty of diagnosis of intracranial complications of acute otitis media

The patient, a man of 51 years, gave a history of an attack of influenza followed by shooting pains in the right ear. The picture was that of an atypical otitis media with a normal temperature and a slow pulse The only symptom suggestive of endocranial complication was some tenderness along the course of the jugular

Incision of the drum membrane was followed by a purulent discharge and an improvement in general condition There was no rise in temperature, no mastoid tenderness, no dizziness, and no nystagmus or other sign of intracramal irritation until the fourteenth day after the first examination time temperature was 100°, pulse 84, with definite signs of sepsis Operation followed at once, at which a deep antrum surrounded by eburnated bone and filled with granulation tissue was cleaned out and the middle fossa exposed, showing the dura covered by granulation tissue, which was removed down to the healthy dura In the absence of symptoms neither the cerebellum nor the sinus was exposed On the third day following, the patient bad a chill, the temperature was 103°, a slight opisthotonos, a Kernig sign, and a slight rotary nystagmus were present, and the patient was markedly toxic

The second operation exposed the middle fossa The dura was a dirty gray No pus and no abscess were discovered here, but a sinus thrombosis extended to the torcular herophili An abscess cavity in the posterior fossa was exposed and drained Exitus letalis occurred 8 hours later

The most interesting feature is the total absence of the almost constant temperature curve of sinus thrombosis E B FOWLER

Bryan: Relation of Diseases of the Posterior Sinuses to Painful Conditions of the Ear. Laryngoscope, 1912, xx11, 1362

By Surg , Gynec & Obst Cases of earache as a symptom of posterior sinus disease are rare but they occur often enough to make a record desirable

The nose and the nasopharyny are very rich in sympathetic nerves The spheno palatine (Meckel's) ganglon, in the upper part of the sphenomaxillary foss, just under the sphenoidal snus, is associated, by way of the vidian nerve and its paraches, with the otic ganglion lying on a lower level and on a plane posterior to the sphenoidal snus, and from this several branches go to the mouth of the Eustachan tube, one or two filaments to the auruculo-temporal nerve, and a communicat ing branch to the corda tympani. With these anatomical relations it may easily be seen how painful impressions in the ear are associated with discaser of the sphenoidal or posterior ethimoidal caser of the sphenoidal or posterior ethimoidal

This is supported by a report of three cases with a history of severe pain in the ear and negative aural fadings that were cured by operative treatment of the existing disease of the sinuses

E B FOWLER

Loughran The Radical Mastold Operation. N Y M J, 1912, xcv1, 1275 By Surg, Gynec & Obst

The object of the radical operation is the cure of a chronic mastodists the chief symptom being a persistent otorrhora, the pathological condition being a necrosis of the bony wall of the middle ear and ossicles as well as the addities and mastod antrum this necrosis resulting from a fadire of resolution ous time, the otorrhora being the only objective symptom.

Estentials for the proper healing of the would cavity are summed up in the thorough removal did diseased areas and the preparing of the cavity so that epidermatization will go on normally and with the least delay. This includes the complete removal of any loot of infection within the missted process and the middle ear cavity, the thorough curtifuig of the entrance into the Eustachan tube, the establishing of a perfect of the middle of the complete removal of any look of the complete perfect perfect of the complete perfect perfec

The healing of the wound is a physiological performance consisting of the development of granulation tissue, varying in structure in different parts of the castly and the production of the epidernal layer which, beginning at the margins of the flaps formed from the posterior canal wall and placed in close approximation with the bony wall of the cavity, is encouraged to extend out over the developing granulation tissue and so produce final healing. The proper placing of the skin flaps is essential

The granulation tissue should be encouraged to

fill up the entrance into the Eustachian tube and also the antral portion of the wound cavity so that the only permanent space will be that previously occupied by the middle ear cavity

Improvement in hearing depends entirely on our ability to retain for the stapes a certain amount of elasticity as a conductor of sound waves. This is difficult on account of the tendency to contraction of the sear tissue in which the stapes is embedded

Cosmetic results depend on the placing of the posterior incision and the form and size of the reconstructed external meaturs

Voorhees. Labyrinthitis and Cerebellar Abscess N I M J, 1912, xcvi, 1212 By Surg., Gypec, & Obst

One of the most important 5 inchors of lsbynathing disturbance is systematically supported by the place whenever the vestibular nerve is imtacted either pathologically or experimentally. This systemas is directed toward the initiated sidebut if the irritative process goes on to destruction of the labyranth, very marked rotatory and homozotal systemas to the turnitated (sound) did is produced. This latter my stagmus disappears in from three to fourteen days.

A second important symptom is dizziness with turning, either of the patient himself or of surround ing objects. This turning usually corresponds with the direction of the nystagmus.

With dizziness and nystagmus there is always periodic (inconstant) nausea and comiting

After the decline of a severe attack, which lasts from a few hours to two or three days, this duzaness goes over into marked disturbances of equilibrium, with ataxia of trunk muscles and inco-ordination of arms and less

arms and legs
Falling takes place in a direction opposite to the
nystagmus and is influenced by the position of the
head. When a laby inith is destroyed there is, of
course, complete loss of hearing.

In cerebellar abscess nystagmus is directed to the diseased side remains stationary or increases from day to day, is rotatory with a strong bornoutal element, and is inconstant. The dirames is constant front periodic) and is seldom comband with diseased side, in one direction only, without reference to the direction of the nystagmus, no matter what the position of the head

Nausca and vomiting are severe and constant when the disease becomes well marked. Hearing is lost only when the cerebellar abscess was preceded by suppurative labyrinithitis.

SURGERY OF THE NOSE, THROAT, AND MOUTH

Heller: The Submucous Operation and Some of Its Difficulties. N Y St M J, 1912 x11, 207 By Surg, Gynec & Obst

Three difficulties are emphasized the initial incision, the securing of a wide flap under which to work, and the removal of the bony crest The first is to be overcome by simultaneously cutting through mucous membrane and cartilage from the operated side to the perichandrium of the opposite side hold ing the blade at right angles to the cut surface After leaving the cartilage the incision extends down to the hone, across the floor almost to the level of the inferior turbinate. Having separated the perichondrum above down to the crest, where it is densely adherent to the periosteum reflected from the bone below (Ballenger), a semi sharp elevator is inserted at the terminus of the original incision and, dissection backwards, separates the periosteum from the nasal floor Working toward the septum the mucous membrane is lifted until only a bridge of tissue remains at the summit of the crest is readily severed and leaves a wide curtain extending from the dorsum above to the floor below, about at its junction with the inferior turbinate a wide space within which to work and insures at least one intact flap to replace should the other become lacerated It is brought out that the opera tion is a plastic one and all difficulties can be over come by adhering to the lines of natural cleavage and avoiding undue baste

Baldwin. The Finger in Rhinoplasty, Improved Technique. Surg, Gynec & Obst, 1913, xv, 720 By Surg, Gynec & Obst

This successful and ingenious method was used with very satisfactory results by the author in the repair of two cases The case here reported is that of a young woman 20 years of age, who from a lupus vulgaris, which had run its course suffered the entire loss of nasal bones, cartilages and soft parts leaving a large triangular opening. This was repaired in the following manner The author, thinking it would be advantageous to have a double flap of skin (one continuous with the skin of the face and the other replacing the mucous membrane of the nose) secured this by making a flap low down on the right side of the abdomen making three incisions corre sponding to three sides of a rectangle, the fourth being a hinge and retaining its vitality until it had united to the finger The skin of the abdomen was dissected up and the wound made by the flap was closed The left ring finger was then split in the middle line of the palmar surface from the nail to the web, and the edges were dissected up from the bone, which was removed. This raw surface was then applied to the raw surface of the abdommal flap, their edges being brought together by three silkworm gut sutures on either side. These sutures were left long to retain the bat wing shape and size of the flap by tying them over a perforated copper splint which was cut from a Levis splint. Other coapitation sutures were laid slong the edges of the flap. Protective dressings were then applied and the arm strapped to the side of the weeks later the bonne with the conversibility in these.

The blood vessels had been cut transversely in order that a uniform circulation in the flap should be attained in anticipation of the transfer of the

finger to the face

After a lanse of several weeks, the distal end of the finger was denuded of skip and nail including the matrix the edges of the finger flans were freshened up and slightly split, the tissues at the upper end of the field were undermined in order that the end of the finger might rest upon the frontal bone, and the internal flaps of finger and face were united with fine silk left long, after which the external flaps were carefully sutured to the skin and plaster of Paris applied to hold the trunk arm and head in a fixed position The part of the cast designed to hold the trunk and head was put on the previous day, facilitating the fixation under the anasthetic After three weeks the finger was detached, the result being pleasing in every way H A Ports

Brown - Transplantation of a Piece of Cartilage in the Septum to Prevent Perforation after Submucous Resection Laryngoscope, 1912, XXII, 1347 By Surg Gynec & Obst

The author speaks of the common condition of sental deformity where there is a sharp spur of bone with membrane covering it so thin that it breaks at a touch, if it is not already groded. He also shows that in such conditions the membrane of the concavity often dips down into a sharp groove, where it is easily injured thus frequently causing tears or punctures opposite each other no matter how great care is exercised in dissecting up the membranes In such a case in October 1909 he took a piece of cartilage that had been removed from the patient's nose, cut it down to a thin plate and inserted it between the flaps of membrane to separate these two tears, in the hope that it would heal in and prevent nerforation The result was all that could have been desired The patient disappeared from observation in two weeks with a perfectly healed septum, the graft still being in place

Brown reports two other cases, also clinic patients with the same result, and then reports The treatment consisted of local, systemic and vaccine treatment The local treatment was carned out by the patient's own dentist. The systemic treatment was principally attention to diet. The vaccine treatment was surfogenous vaccine combined with the corresponding stock vaccine and was cases where no pus was found stock vaccine made up from several strains of other similar but more advanced cases was used. The doses varied from 50 to 700 million of pneumoscicus vaccine and from 50 to 700 million of pneumoscicus vaccine and from 50 to 300 million of stably lococcus aureus vaccine The dose of the strategious vaccine was from 15 to 150 million of stably lococcus aureus vaccine to 150 million of stably lococcus aureus vaccine 50 to million of the strategious vaccine was from 15 to 150 million of stably lococcus aureus vaccine to 150 million of the strategious vaccine was from 15 to 150 million of the disease.

The results obtained in this series of 115 cases were 9 per cent curse in the incipient stage 93 per cent of cures in the moderately advanced stage (116 cases in both these groups had practically no looseness of teeth). In the far advanced cases 43 per cent were cured and 47 per cent improved Perhaps the most important point from the stand version of the cure of the series of the cure of the series of the cure of the series of the s

ease Among the incipient cases 35 per cent had either joint or muscular rheumatism, 50 per cent gastro intestinal disturbances, and 14 per cent skin affections. The moderately advanced showed 35 per cent rheumatism, 50 per cent gastro intestinal disturbances, and 12 per cent skin affections.

The following is part of the conclusions

Pyorrhora alveolaris, so called, is in reality a chronic alveolar osteomyelitis. The societs, which are the affected parts in this disease, are nothing more than enlarged medullary spaces of the mail lary bone.

Trauma is the predisposing factor in nearly all cases, while the progenic bacteria (principally poemococcus, rof times out of 112, either alone or together with staphylooccus, streptococcus, or neararchais) are the exciting factors in the etiology, a great many so called rheumatic disease agastro intestinal affections seem to be directly related to this disease. The vaccine treatment of chronic alvolar osteomyclitis, together with the proper attention to diet, cures or relieves the systemic diseases. Yaccome treatment together with the results in this proper time of the proper time of time of the proper time of th

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xxxix. Dec Local analgesics and their employment in oto-rhino-laryngological surgery Le Mez Ann d mal d l'Oreille, d Laryns, d Nez e d Pharynz, 1912, xxxviii, No 10 four cases in private practice, where he was enabled to follow the after history. It seems that in all of these cases the membrane healed down smoothly over the splint of cartilage, which gradually became absorbed in the course of from six weeks to three months

He commends this little precaution to others as a good preventive of a very common accident

In his seven cases there was one partial failure, where the largest splint available was not quite ample to cover the entire tear

A brief review of the literature is also given, one similar case of this kind being reported by Dr Isabelle Kerr of Boston, in the Woman's Medical Journal, January, 1911

Butt. Some Considerations in Reference to the Nasal Septum. Laryngoscope 1912 XIII 1351 By Surg Gynec & Obst

The author takes up the essential points in the embryological and early childhood development of the nose, showing that the period about the sixth year seems to mark the beginning of the forces and conditions that cause scotal deflections. The sentum is then for the first time set between the un yielding base of the cranium and the hard palate and as the various forces of growth meet and onnose each other overriding and deflections often result

He refers to the statement of Freer (Annals of Otology, Rhinology and Laryngology, 1910) that each constituent part of the septum has its own com plete covering of periosteum or perichondrium which passes through the sutures, of importance because of the difficulty caused thereby in the elevation by blunt dissection.

The more common overridings of the cartilage especially along the floor, are brought out with emphasis on the necessity of having the muco periosteal flap stretched between two points that are in the median line in order to get a good re

The author also advises that the incision be made running "down over the septal cartilage" and at right angles "across the floor of the nose in the skin part of the vestibule " E B FOWLER

Alles: Mucocele of the Anterior Ethmoldal Cells Lancet, Lond , 1912, claxxii, 1645

By Surg , Gynec & Obst

Alles reports his case from the clinic of Fuchs of Vienna The patient, aged 25 years, consulted for a well marked exophthalmos of the right eye, which had been present since 3 years of age. At the function of the upper and inner wall of the right orbit a hard nodular mass 2 cm wide and 2 cm long was found, which was diagnosed as a cholestea toma The case was operated by Fuchs, the ethmoidal cells drained from the outside of a quantity of brownish colored semi gelatinous fluid and the frontal sinus opened. The cavity was nacked with gauze The patient died two days

after operation Mucocele of the ethmoidal relis alone, without any of the other sinuses being affected at the same time, is rare As to the causes of a mucocele there are two; it may be either ranged by a chronic catarrhal inflammation of the mucous membrane lining the sinus, the ostium of which has become previously occluded, or it may be due to an occlusion of one of the ducts of the glands of the lining mucous membrane, and consequent dilatation of it An interesting fact is the very long duration of the case, which is said to have begun when the pa tient was but 3 years old As regards the symptoms, the patient had very few - only a dull ache over the tumor and an occasional supraorbital neuralesa. There was no history of any discharge from the nose The most apparent diagnosis, both from the point of view of the hardness of the swelling and its long duration, was certainly esteema. The prorposes of ethmordal sinus disease is less hopeful than those of the other sinuses, owing to its proximity to the cranium and its contents

D C BALFOUR

Thomson. Tuberculosis of the Laryns, Practitioner, 1912, luxua, 243 By Surg , Gynec & Obst. Tuberculosis of the larvny is a complication of Post mortem examinapulmonary tuberculosis tions show that the larynx is involved in one half the

number of all fatal cases The atria of infection are two, viz (4) from the surface of the mucous membrane of sputum, and (b) from the submucosa, the bacilli arriving from the

lunes via blood and lymph streams The disease is twice as common in males as in females The age is usually from 20 to 40, being unusual but not unknown in children under so It diminishes in severity and frequency as age advances Since in early cases there may be no sub jective symptoms the larynx should be examined in a routine manner in every case of pulmonary tuber-

culosis The author then considers briefly the important points in diagnosis He states that whereas in 1880 the disease was generally considered incurable, today complete and lasting cures are obtained in a fair number of cases The outlook is not favorable in those cases where the laryngeal and pulmonary disease is widespread and accompanied by marked general symptoms as well

There are three main lines of treatment to follow, (1) treatment of the patient and his pulmonary tuberculosis, (2) cure of the larynx if pos-

sible (3) relief of the symptoms

Hygienic and dietetic measures are important Local sprays of cleansing and anodyne nature are useful "Painting the larynx" with lictic acid has fallen into disuse Tracheotomy to save life becomes indicated in extreme stenosis. Coincident syphilis calls for specific remedies Pregnancy should be avoided and nursing forbidden luberculm has not yet proven to be a very valuable FLOYD RILEY curative substance

Johnston: Large Papilloma of the Epiglottis Removed by Fulguration. Largngszope, 1912, xxxx, 1350 By Surg , Gynec & Obst

The report is of a case of a woman 68 years old, giving a history of shortness of breath that was

gradually becoming worse

Examination revealed a large cauliflower like mass practically filling the supragiotitic space. The greater part was removed through the laryngoscope. Pathological examination papulloma with suspicious ingrowth in two places

High frequency spark applied through the direct laryngoscope to the remaining portion of the tumor caused marked blanching, and after a second application a week later the remainder of the tumor disappeared so that no sign of the growth could be

made out.

The author believes that fulguration will solve the problem of treatment of multiple papillomata in children and cites a case to uphold this view E B FOWLER

Belot: The Wisdom Tooth and Its Radiography (La dent de sagesse et sa radiographie) Arch d'Elect méd. ext e clin. 1012. xx. 583

d'Elect med, exp e clin, 1912, xx, 583 By Journal de Chirurgie

The radiography of the wisdom tooth is the most difficult of all cental radiographies from which to obtain clear and serviceable pictures. It is this difficulty, no doubt, which causes the stomatologist to dispense with radiography, which would be of great value in treating his patients. Belot, who is the latter of dental radiography, has tirred to see the contract of the results of the result

By patting the internal surface of the tooth in contact with a small sensitured plate, held in place by vanous methods, he easily obtains excellent pictures of the front tetch, but it is very difficult to obtain good pictures of the posterior molars, especially when a little trassus is present. The endoradingmethy of Bouchacourt, in which the source of the practice.

The method of hormontal projection described by Bolto enables us to obtain excellent pictures of the wisdom tooth. It necessitates the introduction of small plates into the mouth, the emulsion being in cotact with the cutting surface of the teeth which are to be X rayed and the position of the ampale being determined by the indicator, a device invented by Belot. Here also, the sensibility of the patient, the position of the tooth in respect to the Seconding branch of the manifal, and the presence of timuss are insurmountable obstacles which prevent a Sood olate from being obtained.

I sail these cases, it is necessary to have recourse to the primitive method of applying the plate to the check and placing the head in the most favorable position. The picture is generally indistinct and the interpretation nearly unpossible because of the projection of the two manillary bones on the plate In such cases, the strenoscope is of little used.

This instrument, however, can produce results by modifying the picture as (following the instruction of Belot) by varying the position of the X-ray focus the pictures of the maxillæ may be dissociated on the plate This produces the effect of the maxilla farthest from the plate having slipped upward and behind To get this result, the patient is placed on the table, a depression between cushions serving to lodge the shoulder The head is in hyperextension and the maxilize are held apart by a cork introduced between the incisors. In carrying forward the focus of the rays behind and below the ear, a shadow of the maxillæ is obtained at the point of contact of the plate, and by making the angle of incidence vary according to the cases very satisfactory images may be secured. Previous study on the dry cranium is very useful

In this way it is easy to ascertain the presence or absence of the wisdom tooth, to determine its position, the direction of its roots, the state of its evolution, and the contour of its sac

R LEDOUX-LEBARD,

Mummery: A Short Supplementary Note on the Nerves of the Dentine. Proc Roy Soc M, 1912, vt, 23 By Surg, Gynec & Obst. Since reading a paper in June last, the author has

Since reading a paper in June 1885, the author has been preparing fresh sections, and was successful in procuring a very instructive preparation by the Beckwith gold chloride method. The great difficulty in preparing such sections is in getting them parallel to the nerve bundles for any considerable distance, and this has been one of the great sources of difficulty in tracing the ultimate nerve fibres to the main bundles of fibres in the substance of the rule.

In the photomicrograph shown, which is from the corau of the pulp of a human bicuspid, one can see a nerve-bundle termination in the pulp, spreading out into a brush-like expansion of nerve-fibrils which are traceable throughout their whole course from the nerve bundle into the dentinal tubercles.

This work demonstrates very clearly and fully that the nerves of the dental pulp terminate in the dentine, a question which has puzzled microscopists and led to much controversy.

H A Porrs

Medalia: Chronic Alveolar Osteomyellita (Pyorrhoza Alveolaris); Its Causes and Treatment with Vaccine; with a Bacteriological Study and Report of 115 Cases. Boston M & S J., 1912 chava, 888 By Surg. Cynce. & Obst.

This article comprises an investigation and report of 115 cases of chronic alvoolar ostromychist (pyorrhena alveolar ostromychist (pyorrhena alveolaris), with special reference to the establishment of its etiology by means of a bacteriological study of pus, chemical and bacteriological extundation of the faces, and urine and blood examinations, also, to establish the value of bacterial vaccines in this disease.

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The INTERNATIONAL AISTRACT OF SURGERY IS designed to meet the demand for a comprehensive accurate and authoritative review and index of the surgical literature of the world. To accomplish this, reciprocal agreements have been entered into with the publishers and editors of the three leading abstract journals of Europe Journal de Christiper, Centrolblati fur de gesamte Christipes und the Grenzgebiele and Zentrolblati fur de gesamte Gynakologie und Geburishild souze deren Gereizgebiele. Trom these three journals the INTERNATIONAL AISTRACT OF SURGENA is to receive reviews and indexes of the surgical literature appearing in journals published in foreign languages, while a representative editorial staff for America and the British Empire, supplementing the present staff of Surgeria, Ganetologo and Desteries, has been organized to prepare reviews, abstracts and indexes of the surgical articles appearing in American and English publications and to translate and edit the material furnished by our foreign contemporaries.

This plan will not only insure comprehensiveness, but with four strong editorial staffs representing the different languages and able to speak authoritatively concerning the contributors and their work, it provides a journal which for accuracy and authoritativeness must be superior to any publication that might be brought forth by one editorial staff attempting to cover all countries and languages

The new publication will possess the following scope 1 An abstract of the surgical literature of the world prepared by the combined efforts of our French and German contemporaries and our own staff for Great Britan and America. This will be arranged anatomically and will include abstracts and reviews of original articles monographs, books and clinics 2 A complete index of all surgical literature anatomically arranged, giving the name of the author title of communication and name and date of the publication in which the same appeared

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Zentralblatt fur die gesamte Chirurgie und ihre Grenzgebiete

BIER, A FRH VON EISELSBERG, C FRANZ, O HILDEBRAND, A KOHLER, E KUSTER, F DE QUERVAIN V SCHMIEDEN

Zentralblatt für die gesamte Gynakologie und Geburtshilfe sowie deren Grenzgebiete

O BEUTTNER, A DODERLEIN, PH JUNG B KRONIG, C MENGE, O. PANKOW, E RUNGE, E WERTHEIM W ZANGEMEISTER

INTERNATIONAL ABSTRACT OF SURGERY

MAY, 1013

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY

SURGICAL TECHNIQUE

ANÆSTHETICS

Grunert The Present Status of General Narcosis (Der gegennartige Stand der Migemeinnarkose) Legebn d Chie in Orthop 1013 v. 1 Biv Zentralbi i d. ges Chie u. 1 Grenzgeh

The author has gathered together the principal advances made in the field of general narcous klapp has tried by reducing the area of circulation to reduce the quantity of narcotic necessary and thereby decrease its toxicity to as small a point as Meltzer and Auer have introduced a method of insuffiction The method of direct mas sage of the heart in chloroform narcosis especially the subdiaphragmatic has given good results Chloroform has been used less because of late fatal complications In ether narcosis the ether rausch' has been more widely used and the method of administration has been improved by the so called gas ether method The rausch with ethyl chloride is more often employed. Lotheissen has experimented with the oxide of ethyl chloride Many attempts have been made to combine nar cotics such as scopolamin and pantopon in place of scopolamin and morphin for hypodermic injections especially as an aid to inhalation narcosis combination with nitrous oxide is gaining adherents in Germany (Neu Gottlieb and Madelung) Intra venous narcosis is still in the experimental stage Besides the intravenous ether narcosis the in travenous bedonal nurcosis must be mentioned and especially the isopral ether mixture recommended by Burkhardt Dumont opposes rectal narcosts

The greatest precaution must be exercised in administering the ether valours but they can be administered with less danger by using a solution of ether according to a method advised by Arnd

Grayson Eight Years of Chloroform Anæsthesia in Nose and Throat Surgery. Larynfoscope, 1913 xxiii 61 By Surg Gynec & Obst

The author gives his experience with chloroform is an augastheir in more than 3600 operations at the Hospital of the University of Pennsylvania His definice of the deep and almost universal preguitive against chloroform in the Middle and Via England States was occasioned by the many objectionable features of either in the surgecy of the more and throat. The operations in which he has employed chloroform include tonsiliectomy adence to the complexity of the property of the p

of the sinus operations and several tracheotomies He employs the open method' of administration with the Esmarch mask covering this not with a single thick sheet of flannel or other comparatively impervious to air material but instead with from four to six layers of ordinary surgical gauze the number depending on the age and general condition The precautions taken to combat of the patient the supposed dangers of this anæsthetic have consisted in a careful preliminary investigation of the vitality of each patient the invariable use of a freshly opened bottle of chloroform close and constant observation of the patient during the in duction of anaesthesia and the most scrupulous care regarding every detail of the administration of the anæsthetic Although his cases have included many instances of cardiac valvular insufficiency he has yet to meet with his first accident, and he concludes that it is much more prudent and easy to prevent accidents than to cope with them success fully should they be permitted to occur not believe that the cardiac fullure and other mishaps of chloroform anæsthesia however sudden and unprovoked they may seem ever occur without both warning and provocation. He cannot agree with those who think this anaesthetic treacherous.

and he is convinced that many of the fatalities that have occurred under chloroform anæsthesia have been attributable not so much to the chloroform itself as to carelessness in its use

Keppler and Breslauer: Intravenous Narcosis (Zur I rage der intravenosen Narkose) Zisch f Chir , 1913 CXX 265 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The authors report a series of investigations per taining to the application of various narcotics in securing general anæsthesia through intravenous injections The shortcomings of the various meth ods now in use to produce general anasthesia are reviewed. There are two avenues along which improvement in narcosis is traveling, first by combining narcotics and second other places of application in order to get rapid absorption. The dangers and difficulties of rectal and subcutantous an esthesia are gone into. Intravenous anæsthesia was used as early as 1872 and to day there are three groups of reagents used for the purpose first total anxis thesis acquired through the injection of cocain and

its substitutes into the blood (this has been tried by Ritter on animals only), second narcosis pro duced by a solution of chloroform and ether, third, the injection of a solution of the urea de-

rivatives, urethan bedonal, etc

The authors object to the first method because it is not a total anæsthesia, a true narcosis, but only an elimination of the nerve tracts and end apparatus which is entirely different from narcosis of the The latter are only affected by the ganglion cells severe toxicity of the alkaloid, not narcotized Ritter discovered that through the general action of cocain by way of the blood stream, the sensory fibers are made non sensitive before the general nervous system is poisoned. The other two methods of intravenous narcosis aim at producing the ordi nary cerebral anæsthesia a true narcosis or hypno sis, using a portal of entry other than the lung In these two methods of producing general anæs thesia two principles are involved - a volatile or a non volatile reagent is used A volatile solution, in passing the lesser circulation on its way to the brain, loses some of its strength by exhalation from the lung Its concentration is therefore affected The amount given off varies, but is considerable The advantage of this is the rapid elimination of the reagent. The disadvantages are that the res piratory organs are affected although to a less degree than in the inhalation method, that large amounts of the reagent are needed, although the blood pressure is not affected, the low boiling point, thrombosis, which can be avoided by using Hagemann's solution, and the continuous administration without causing stagnation at any point

The non volatile reagents are not affected by their course through the lungs, but they have their disadvantages Among these may be mentioned their insolubility, the length of time they remain in the body, so that the patient sleeps hours after the operation, predisposing to pneumonia, asphysia from dropping backward of the tongue, etc. Attacks of comiting, excitement and paralysis of the respiratory center occurred in 8 out of 530 cases Urethan is more soluble than hedonal, but it forms a solution too concentrated and non isotonic

All venous narcosis is still hampered with large apparatus, continuous infusion, and difficulty in shifting the patient. The ideal intravenous insection for narcosis should consist of a single insection of a few cubic centimeters of a chemically mert narcotic that acts specifically on the cerebral cortex and has no effect on any other organ Its toxic range should be broad enough to eliminate any danger, and the narcotic action should pass off rapidly after the operation With this ideal in mind the authors tried the more important reagents on animals

The true narcotics, ethyl bromide, nitrous oxide, and ethyl chloride, are of no use since they cause cyanosis, dyspnæa and cessation of respiration, also their boiling points are too low. The hypnotics and sedatives of the alcohol group also fail to fill the requirements Chloral hydrate, like isopral causes a lowering of the blood pressure (down to 80 mm) and often a cessation of the heart beat as in chloroform death. The derivatives all have the same effect, and in addition the patient sleeps for hours after the operation. After the use of trional or paraldebyde, the patient sleeps for two days or more Amyl hydrate caused nervousness and clonic cramps Chloral, formamid sulfonal and veronal dissolve with great difficulty. The sodium salt of veronal is too dangerous because of the paralytic effect on the medulia Urethan and hedonal had to be given in doses entirely too large to be of benefit, urethan caused infarcts in the kid

ney in one instance. The bromides are too weak The narcotic alkaloids on the other hand work very well, especially the opium group Morphia and optum given intravenously caused a number of secondary symptoms, vomiting, haziness, etc., but working with dogs it was possible to get sufficient narcosis without causing these secondary symptoms Intravenous injections of pantopon came nearer the ideal than anything else which was tried authors used it in 50 cases (1/4 to 1 cg per K body weight) and in all narcosis was sufficient for the operation, no death resulting. Only to cc of the solvent was necessary Vomiting, albuminuria, damage to the heart or lungs did not occur, and the patient was awake in 15 minutes after the narcosis was stopped These fine results are due to the fact that complete narcosis of the cerebrum can be obtained without abolishing the reflexes tone is partially retained but it was not so promi nent as to interfere with the operator When ap plied to the human being pantopon failed, as no analgesic action occurred, and when larger doses were given a long post-operative sleep resulted The possibility of success, therefore, lies in discovering a preparation which acts on man as pantopon acts on dogs

Noel and Souttar. Anæsthetic Effects of the Intravenous Injection of Paraldehyde. Ann Surg , Phila , 1913, lvn, 64

By Surg , Gynec & Obst

Paraldehyde has long been recognized as in many ways the most perfect hypnotic. To avoid uppleasant taste and preliminary excitement, intravenous administration is resorted to Its very rapid action is delayed by dilution

The authors miv 5 to 15 cc of paraldehyde with an equal amount of ether and dissolve this in 150 cc cold I per cent sodium chloride in sterile distilled water, or when necessary, ordinary boiled tap water The solution should be perfectly clear after shaking The Fildes and Macintosh apparatus for salvarsan is used, and the solution is injected at a temperature not exceeding 25° C, at the rate of 5 to 10 cc per

The most striking results were seen in the case of alcoholics, both acute and chronic

At each instant the nationt exhibits the maximum

effect of the dose given, so its administration is under absolute control No after effects of any kind occurred though

the method was used in cases of grave cardiac and pulmonary diseases

It is not suggested as a substitute for the slower but more lasting hypnotics, but the authors never failed even under the most trying circumstances. to induce a condition resembling normal sleep in 60 seconds No record could be found in the literature of the previous intravenous use of paral dehyde H W KOSTHAYER

Seidet Mandibular Anæsthesia: Anatomical and Clinical Experiments to Avoid After Effects (Die Mandibularanästhesie, Anatomische und klinische Untersuchungen zur Vermeidung ihrer ublen Folgeerscheinungen) Deutsche Zahnheilk in

1 orte , 1913, xxvui, 31 By Zentralbl f d ges Chir u i Grenzgeb The after effects of mandibular anasthesia are often difficulty in swallowing and trismus. According to Seidel these are to be attributed to the effects of infiltration of the internal pters gold and the superior pharyngeal constrictor muscles by the novocain supravers solution. He rejects the customary technique of mandibular anæsthesia in which one proceeds from the premolar or first molar of the sound side directly to the mandibular fora men He considers the method given by Braun. of beginning at the retromolar trigonum and passing along the bony wall of the ascending ramus to the mandibular foramen, to be better He has demonstrated by anatomical investigations that the position of the foramen mandibulare varies and is therefore difficult to find The upper half of the mandibular sulcus, where the nerve lies in loose connective tissue between the bone and the musculature, is sufficient for the deposition of the liquid The needle of the syringe is 05 to 07 mm thick and 45 cm long, and is made of platinindium so that it may not

break within the tissue

Braun: The Advantage of Local Anasthesia for the Reduction of Fractures and Dislocations (Die Anwendung der Lokalanästhesie zur Reposition subcutaner Frakturen und Luxationen) Deutsche med Wehnschr 1913, xxxxx, 17

By Zentralbl f d ges Chir u i Grenzgeb

Fractures were reduced under local anæsthesia as early as 1885 In that year Connay, an American surgeon, and a little later Von Reclus reduced fractures under local angesthesia without pain. In 1007 and 1008 Lerda and Ouenu reported a large number of cases of fractures in various positions of the body where reduction was done successfully and painlessly by the local injection of cocain solution Later Braun reduced fractures under local anæsthesia using a 1 per cent solution of novocam adrenalin instead of cocam In foint fractures the solution is injected directly into the Braun further recommends the use of this solution in cases of asoptic arthrotomy, especially in the knee joint, for the removal of loose bodies in a joint meniscus operations, suturing of the patella in cases of fractures, etc. It is also used in the reduction of dislocation of the shoulder elbow, and Conway reports that he had used local miection in a case of dislocation of the elbow joint The solution is injected both on the central and peripheral side of the dislocated joint

Braun reports that he has used such injection in over so cases of fractures and dislocations during the last year In 2 cases of dislocations of the hip (ischial and obturator) he was able to procure complete anæsthesia and relaxation when the anæsthetic was injected. The position of the head of the femur was first palpated and then as cc of a per cent solution of novocain adrenalm was injected into the palpated area. This was followed by the injection of 20 cc of the same solution into the acetabulum In doing this Braun mentions the following procedure the puncture is made with a needle 10 cm long, just back of the anterior superior spine following the bone until it reaches the acetabulum, after which 20 cc of the solution is injected. According to Braun the reduction of dislocations was easier under local than under general anaesthesia HIRSCHEL

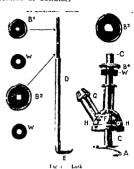
Läwen · Extradural Anæsthesia (Die Extraduralanasthesse) Ergebn d Chir u Orth, 1913 v 39 By Zentralbl i d ges Gynák u Geburtsh s d Grenzgeb

Lawen gives a compilation of the literature and reports his own experience with extradural apersthesia. In the different chapters are treated, the development of epidural injections for sacral anaesthesia, the anatomy of the epidural space, which is illustrated by photographs of pelvic preparations, examination of the different material in the cavum epidural and the technique of extradural anæsthesia, with the author's own method and the results hitherto obtained In the last chapter, the author opposes high extradural anasthesia as advocated by Schlimpert, which he considers rather a combination of local anæsthesia with the general effect from the resorbed novocam. He puts his futh in his own technique and advises against un dertaking those major operations which cannot be performed under this form of extradural anas thesia Since his last publication extradural anas theses has been employed by his method in 65 cases at Whitehead operations of cauterizations of harmor rhoids, I extirnation of a melosarcoma of the anus 9 operations for tuberculous and other anal history 2 for anal fissure 1 exterpation of a rectal pulsous ti operations on the urethry and a secondary per incorrhaphy In three cases investhesia failed four times during operation narcosis had to be added after extrudural anasthesis had been attempted I atradural in a sthesia should be used in women only for vaginal operations following the authors directions strictly. Lit patients should be excluded as should the sends the atternose lerotte, and those suffer ing from he art disease nephratis an emia primational STREIMITERT. or organic disorders of the nerves

Bleek. Extradural Anaesthesia for Surgical and Gynecological Operations. Under Extraduralin asthesic for chromosche and gone the Operationen: Monti the 1 Coher h. a. Const. 1915.

XXXXII 122 By Zentralld f d are Gyngk u Geburtsh a d Grene ch Block gives a report of all operations performed with extradural in esthesia. The operations were for hemorrhoids rectil fistule permeil liceration sterms displacement or externation by the seemal route round beament shortening by the Mexander Adams method besides a Bassim hermotomy a per cent novocam solution was injected with four or tive drops of adrenalin and salium bicarbonate The usual injection is 20 (a equal to 0.4 nosocajn but Bleck his employed a miximum dose of 28 cc was avoided as a rule and Dammerschlaf occasionally diog pantopon plus diod scopolamin was first injected. The results were satisfactors in 20 cases but in 10 an additional anasthesia WITE DECESSORS Among the latter cases appear most of the vaginal hysterectomics and uterine interposition operations the Bassini operation and the sectio alta. One severe complication in a vaginal total extirpation came on as a paralysis of both legs and disturbance of hearing but both were finally cured. The author believes that this acculent was due to a technical error an intraduril injection. He therefore warms against such an error and advises against the use of a larger quantity than 20 cc of a 2 per cent solution The so called high sacral anasthesia is condemned as being the cause of prolonged 'Dammerschlaf

SURGICAL INSTRUMENTS AND APPARATUS
Lunk, An Instrument for Fateblishing Faceal
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within the bowel and recip outsid. Connecting with the latter is a tube for draining, which mech inism maintains a water tight joint around the perfortion long enough for adhesions to form be tween the bowel and the hadininal wound. Yo saluties are used the instrument being tied to the abdominal with

The instrument was used in five dops and one man each time without peritoneal infection. In the first dop not drainage, was used and a phlemon of the informational wall caused his death. In the the instrument with the lower lobitated this sequel in the protein the notion with the instrument with the lower lobitated this sequel in the protein the notion stabilished through a right (transrectus incision just below the level of unabletis was at 21 test from the execut and after primary rehaf distention recurred. Patient lived confine stoles.

cending colon. To him to technique of using the fistula metrument as a worked out on read view with the field in the state of the first of the first out of the

the point of the spiral will catch on the mucosawhich obstruction must be freed by pulling on the intestine in advance of the opening before the latter can be made to rouse the comment before the proper from the property of the comment of the comment that the property of the comment is (C) 1, B, 1 B, 2) and against the ring the cap I outside is then made to evenly compress the intervenue tissues.

When a transverse wound opposite the thac spine

is used it is recommended that the instrument be attached by its four loopholes (II) to the aponeurous of the external oblique about 1 cm from its cut edges and at the inner angle of the wound to draw together the internal oblique and transversils muscle fibres and pertioneum around the extrudid bone! A narrow gause drain is full around the bise of the instrument beneath the fivation suttress the first of the instrument beneath the fivation suttress thought a first probability of the first probability of the instrument beneath the fivation suttress should be left long to facilitate subsequent rimors?

SURGERY OF THE HEAD AND NECK

HEAL

Hall Two Cases of Colloid Tumor of the Third Ventricle Causing Death Lancet Lond, 1913 clevel 89 By Surg Gynec & Obst

The author reports two cases of colloid tumor cach about the size of a marble occupying the interior part of the third ventracle. The first pattent died a few hours after being first seen in a som comatone condition. The second dued suddenly with little privous history except hadsthe. The author describes the pathology of the tumor which consisted of structureless hyalion matrix containing at wide intervals epithehal cells in virious stages of degeneration. He was able to rollect in all o cases of such tumors and limits himself to the pathology of the condition.

Oppenheim Clinical Peculiarities of Brain Tumors (Leber kluusche Eigentumlichkeiten kon gentaler Hirngeschwulste) Neurol Zentralbl 1913

By Zentrilbl f d ges Chir u i Grenzgeb

Four cases are reported in which Oppenheim made a diagnosis of angioma of the brain The condition is recognized by the presence of angioma elsewhere in the body angiopathic or congested conditions or only congenital malformations besides the symp toms of brain involvement Epileptiform attacks are prominent and are of the cortical type rather than idiopathic. In addition there are attacks or symptoms of paralysis of one half of the body epileptiform in nature, which point to a lesion in the cortex or central ganglia. Pressure symptoms are absent or only accompany the attacks of paralysis Of importance is the protracted course with intervals without symptoms and the fact it manifests itself after trauma or osychical excitement

Archambault A Contribution to the Symptomatology of Cerebral Abscess, with Especial Reference to Diagnosis and to Indications for Surgical Intervention Albany V inn 1913, xxxx 6 By Surg Gynec & Obst

Despite the fact that the last decade has furnished an exceptional number of valuable publications on the diagnosis and treatment of cerebral abscess, we

will stand sadly in need of additional diagnostic data before we can hope to fully materialize the unquestioned efficiency of surgical intervention in this particularly fatal affection

The symptoms upon which greatest reliance can be placed in reaching an early diagnosis of cerebral abscess—and the clinical developments which furnish the strongest indications for operative intervention may be jointly summarized in the following considerations.

3 Of general symptoms the febril, reaction when prisent the cards appearance of psychic manifestations such as have been previously described persistent headriche, frequently of a dull and constricting character changes in the blood picture und the slowing of the pulse rate are by far the most important. Justificient in themselves to warrant surgical interference they acquire considerable value in the presents of a previous history of traumatism or of otitis media, when associated with local symptoms they complete the indications for operation.

2 The appearance of symptoms of focal cerebral disorder are of the very greatest importance, both for topical diagnosis and for well directed and intelligent operative procedure. It is only when taken in conjunction with the general symptoms mentioned above however that they clearly point to cerebral abscess liere, as elsewhere, the well known rule formulated by competent and experi enced clinicians is to be applied 1 diagnosis should never be made from one symptom alone, but from a careful survey of all the symptoms present, and particularly from the predominance of certain of them as well as from the mode and rapidity of their development. It is in this respect that the hemiplegia which has furnished the essential motive of this communication assumes such great significance This hemiplegia represents more than a symptom, it almost constitutes a syndrome. It may appear either early or very late in the course of the disease When it occurs in the early stages it indicates that the Rolandic area has probably been primarily involved and it is here that the symptom attains its maximum diagnostic value. It enables the suf geon to intervene during the stage of initial en-

cephalitis, before the actual formation of an abscesscavity, and consequently before any very material damage has been done to the brain centers Under such circumstances, the chances of obtaining remarkable restoration of function are appreciably increased When the progressive hemiplema is a late manifestation of cerebral abscess, it is due. evidently, to the secondary extension into the subcortex of the Rolandic area of an already matured abscess originating from some adjacent region of the brain as, for instance from the frontal lobe or the temporal lobe. The hemiplegia still retains its full significance it still remains an imperative indication for intervention but, of course as considerable destruction has already occurred complete retrocession of the paraly tie disorders can hardly be expected

3 The occurrence at any time in life of a hemiplegia which starts as a monoplegia and requires several days for its full development especially if it be associated with either fever persistent head ache, hebetude or distinct blood changes with any or all of them supplies all the indications necessary for immediate surgical intervention

- 4 The apoplectiform onset, in a young adult who is neither syphilitic nor tuberculous nor alcoholic, of a localized paralysis associated with convulsive manifestations and accompanied by fever. strongly indicates cerebral abscess and justifies, in the great majority of instances speedy operative measures
- s The more or less sudden appearance of aphasic disorders or of a monoplegia in a subject previously suffering from otitis media implies almost necessari ly the existence of cerebral abscess and practically suffices to warrant surgical treatment
- Mees. Extirnation of the Cerebellum in a Case of Concentral Occipital Hydrencephylocele (Kleinhirneystirisation bei einem Fall von ange borener Hydrencephalocele occipitalis) Beile 3 Geharish u Gradk 1913 XVIII I By Zentralbl f d ges Chir u i Grenzgeb

In an infant 2 days old an occipital hydrencephalo

cele the size of the head of the child was operated The operation seemed necessary because of the size of the tumor and because of the danger of infection by an existing decubital ulcer. After opening the meningeal sic a portion of the brain was found which was diagnosed as cerebellum the size of a hen's egg and contained a hamorrhagic infarct A later histological examination confirmed this diagnosis. Since the reposition through the parrow bony opening was impossible and since the great intracramal pressure could not be reduced even after puncture of the lateral ventricle, ablation of the cerebellum was undertaken This was a year and a half ago, since then the child has developed slowly but relatively well The clinical indications of the absence of the cerebellum are nystagmus absence of the corneal reflex difference of the muscu lar tone of the upper and lower extremities, and yomiting Among the 75 cases in the literature 4

cases of occipital encephalocele with a cerebellum as the hermal content are mentioned which were successfully operated A fifth case died soon after the operation

Marburg: Symptoms Due to Lesions of the Hypophysis (Die Klinik der Zirbeldrusenerkrankunger) Legebn d inn Med u Kinderh, 1913 1,146
By Lentralbl f d ges Chir u i Grenzgeh

The symptoms caused by lesions of the hypophy sis may be divided thus general pressure symptoms on the brain, local pressure 53 mptoms on neighboring structures and symptoms which are related to a lesion of the gland itself The most constant symptom is headache. This headache is not uncommon ly confined to the occipital region and is commonly associated with a still neck, opisthotonus and changes in intensity when stooping \omiting occurs somewhat oftener than dizziness. The choked disk resulting from the increased intracranial pres sure often occurs earlier on the right side than on the Other symptoms are loss of memory and in tellect somnolence and tonic spasms. Locally the symptoms that are most characteristic are sluggish ness or immobility of the pupils and weakness of vision in the upper and lower parts of the visual field Later it may affect branches of the oculomotor or the trochkar nerve. There may also be a disturbance of hearing which is usually bilateral, and eventually monoplegia of the extremities may occur due to lesions of the midbrain decenerative process takes place in the cerebellum which is accompanied by hydrocephalus and lesions of the corpus callosum The real symptoms due to a lesion of the hypophysis itself are premature hyper fronts of the genitalia and general adiposits

considered when making a differential diagnosis chargosis is often impossible when early genital development and admostly are not found

BIERNATH

Weber Commotio Cerebri and Anatomical Findings (Commotio cerebri mit anatomischen Befunden) Aerall Sachverst Zeitg 1913 xix 56
By Zentralbl f d ges Chir u i Grenzgeb

Tumors of the cerebellum and pons have to be

The patient was thrown from a motorcycle and fell upon his head At first there were only symp toms of a slight concussion of the brain but soon signs of serious affection of the brain appeared death ensuing after 14 days. The autopsy revealed a fissured fracture at the base of the skull and mury of the dura mater Macroscopically the brain seemed intact, but microscopically acute changes and chronic degenerative processes were discovered in the minute vessels. The author therefore concludes that many cases of commotio cerebri or affection of the brain end fatally, even though the traumatism has been of only medium severity, because a degeneritive process, which previous to the accident had not become clinically evident, had already been RIEDL. present in the vessels

NECK

Bauer: Wry Neck (Der Schiefhals) Ergebn d Chir u Orthop, 1913, v, 191 By Zentralbl f d ges Chir u i Grenzgeb

The large bibliography which appears at the beginning of the atticle is mod of the interest which surgoois and orthopolosis have in this disease. There is, however, because the tempty, this article is a complation and critical twenty in the surgoois as to the etiology of the heropy, this article is a complation and critical twenty in the article treats of muscular way neck, the forms of the carea and are due to such cases as affections of the eyes and the ears, adendoom, gotter, allowed the ears, adendoom, gotter, and rheumatte forms are briefly discussed. The discussion of neurogenous way neck is reserved for a special article.

On the question of eitology there are two uses, which are based on clinical observations, pathologro-anatomical investigations, and experiments. One of these assumes a traumatic origin for the disease of any neck, the other explains it as an intrauterine of any neck, the other explains it as an intrauterine of any neck, the other explains it as an intrauterine theorem of an apartic each of these views and the points for and against each of these views are majority of cases will explain all the phenome great majority of cases will explain all the phenome probable explaination. On account of the occasional probable explaination. On account of the occasional origination of the country of the other original explaination of the country of the other original explaination. The country of the other original explaination of the other origination of the other original explaination of the other origination of the other original explaination of the other original explaination or other origination origination or other origination or other origination or other ori

Since the purely orthopedic treatment will not suffice, the open operative method alone enters into question. Only a small number of sure of the open cutting subcutaneously through the sterno-declarative out the section of the musical at its sterno-declaration of the section of the musical at its sterno-declarative out the section of the musical at its sterno-declarative out the section of the musical at its sterno-declaration of the section of the musical at its sterno-declaration of the section of plastic operation on the origin of the methods of plastic operation on the origin of the methods of plastic operation on the origin of the methods of plastic operation on the origin of the methods of plastic operation on the origin of deserves to rain first, as it does not require prolonged after treatment and frequently produces permanent results.

White A Clinical Lecture on Myxœdema Lancet, Lond 1913, clxxxiv, 154 By Surg , Gynec & Obst

The author reports thee typical cases from the wards of Guy's Hospital About half the cases of myxed-ena occur between the ages of 30 and 50, over one third down to gland also 30 gr, it may in myvedena such down to gland is 30 gr, it may in myvedena such down to gland is 30 gr, it may in myvedena such down to gland they of our knowledge of the disease the outrough of the disease of the disease to do the d

William Gull, in 1873 There is no evidence tha parathyroids have anything to do with myxodems He discusses the pituitary gland in relation to myx cedema Acromegaly is due to disease of the pituitar body Out of 24 cases in which the this road gland wa examined in persons who died from acromegaly, it only 5 was the thyroid gland normal In 15 case. of disease of the pituitary, in which the thyroid wa examined, there was some alteration in the gland The anterior lobe of the pituitary body swells during pregnancy, when there is disease of the pituitary gland there is alteration in the thyroid body, there is alteration in the thyroid gland when the pituitary body is excised in animals, and when the thyroid gland is atrophied as in myxordema, there are changes in the pituitary body Myxœdema 19 much more common in women than in men Nearly all the women who have had myxordema have borne children often many children, and often in quick succession The thyroid gland enlarges during menstruation and during pregnancy in many women It would seem, therefore that the disease must in some way have some sexual relation author takes up the value of thyroid treatment and the dangers of overdosing He urges the importance of recognizing early cases DONALD C BALFOUR

Wilson. The Relationship of the Clinical and Pathological Aspects of Exophthalmic Goiter. Northwest Med., 1913, v, 1 By Surg., Gynec & Obst

This paper is based on the co-ordinated clinical and pathological observation by H S Planten and the writer of a large number of cases of temper and the writer of a large number of cases of cooper to the stability gotter operated on in the May of clinician is able, from a detailed study of his cases before operation, to state the character and degree of change which was to be compared to the character and degree of change which was to be compared to the character and portion thereof, and (b) the pathologist properties of the gland alone is able to state broadly the chinical diagnosis of exophthalmic or simple genera and the stage and expertity of the disease

This demonstration of the relationship of the symptoms and pathology of exophthalmic goiter by two men working independently has been made by each summarizing the results of his detailed study in accordance with the following working hypothesis

T Certain 5) inptoms of exophthalmic goiter—symptoms of pressure on the trachea and adjacent vessels and nerves—are due to increase in size of the gland largely from its overfilled storage capacity.

2 Certain other symptoms of exophthalmic goiter, the acute toxic symptoms, seem due primarily to something made in the thyroid gland which passes into the general circulation and acts directly on distant vital organs

3 Yet other symptoms of exophthalmic goiter are the secondary result of (a) degenerative changes produced in distant organs after their affection by thyroid secretion, and (b) of the disturbance of the

normal interrelations of these organs themselves A classification of the histological conditions met with in the thyroid gland is given, with a few exam

ples of its general application as follows t The thyroid gland removed from a young pa tient in the carly months of acute thyrotoxicosis (exophthalmic goiter) shows hypertrophy and hyper plasts of the parenchyma with a small amount of a thin and but slightly stainable secretion within the acini The size of the gland and the distribution and

degree of hyperplasia are proportionate to the intensity of the symptoms

The thyroid gland from a young patient who has had acute thy rotoxicosis eight months to a year shows a much less active hyperplasta and a much larger amount of a more dense and more stainable secretion in the acini throughout the gland. This pathological picture corresponds to a period of reduction of the intensity of the toxic symptoms which Plummer has pointed out usually occurs in the latter half of the first year of acute Graves disease

The thyroid gland in a young patient who has had acute Graves discuse for a year and a half or more usually shows at least three phases of pathologic change scattered irregularly throughout the gland as follows (a) an active parenchymatous hyperplasia like that described in No 1 (b) 2 re duced parenchymatous hyperplasia with a dense stainable secretion in the acmi like that described in No 2 and (c) areas in which the parenchyma cells are atrophied or desquamated from the walls of the acini which are distended with intensely

staining colloid

4 The older the putient at the time of onset of acute thyrotoxicosis the more quickly do colloid changes appear in the thyroid

The thy roid from a patient who has somewhat rapidly developed a typical picture of exophthalmic gotter with exophthalmos after years of simple got ter, presents a picture of advanced colloid change throughout most of the gland, but usually with thinned rather than with desquamated parenchy ma and with scattered areas of somewhat actively func tionating parenchyma which may be markedly by perplastic It is sometimes impossible to distin guish this pathologic condition from that described

6 The thyroid gland from a patient who has had symptoms of thyrotoxicosis very slowly developing throughout a period of years with a predominance of cardiac symptoms and little if any exophthalmos is usually found to present a histologic picture of (a) diffuse adenomatosis or (b) more usually of encapsulated multiple adenomata almost invariably of the foetal type These cases however, as pointed out by Plummer are not true exophthalmic goiter

While the above general statements indicate broadly the lines of relationship which are usually found existing between the pathological and chinical conditions the author urges the futility of attempt ing to co ordinate the clinical and pathological find

ings on any given case without making of it a special problem, to be studied in minute detail both by a skilled clinician and by an experienced pathologist

Meyer. Chronic Malignant Thyreoiditis, Peculiar Granuloma Consisting of Eosinophiles and Plasma Cells Originating in the Right Lobe of the Thyroid (Fingenartis aus cosmophilea und Plasmazellen zuzammengesetztes vom rechten Schild drusenlappen ausgehendes Granulom) Frankf Zischr f Pathol , 1913, x11 116

By Zentralbl f d ges Chir u i Grenzgeb

A case is described which clinically presented the picture of Riedel's "ironhard struma," which, in spite of a second operation because of asphyxia (Rehn), died from pressure of the tumor Even after resection of the manubrium of the sternum a radical removal nas impossible, a bilateral post-operative pneumotherax hastened the death. The autopsy showed that a tumor originating in the right side of the thy road infiltrated the neighboring soft tissues and invaded the anterior mediastinum up to the pericardial sac while the left lobe of the thyroid re mained entirely normal. Histologically no malig nant tumor was present Instead was seen a granu lation tissue consisting principally of eosinophiles and plasma cells which entirely replaced the thy roid tissue of the right lobe. There was a tendency to connective tissue formations, but no necrosis was [found The walls of the small vessels were thick ened In addition there was a circumscribed small necrosis of the heart muscle Bacteriologic cul tures and examinations for Mushe's granuloma and animal experiments were negative. Tuberculosis and lues could be excluded (clinically & I treat ment was of no avail) The healthy appearance of the patient the histological picture etc., spoke There was no gen agunst a malignant granuloma The unaffected eralized intoxication (Cachexie) left lobe pointed against autointoxication by patho logic products of metabolism of the thyroid and the great spread of the condition. The cause is probably to be found in an infection which could not be determined

Marine Benign Epithelial Tumors of the Thyrold Gland J W Research, 1913 XXVII, 229 By Surg , Gynec & Obst

The author's purpose in this paper has been to review the morphological characteristics of these tumors to present his observations on the percent age sodine contents in relation to their anatomical structure, to offer a classification that embodies both the morphological and physiological data and lastly to discuss the possible bearing of these results on Cohnheim s hypothesis of tumor origin

Approaching the subject from these angles the author has submitted the following scheme of He has divided these tumors into four groups 1 Hyperplasia from physiologically differentiated thyroid (simple or parenchymatous 2 Simple adenoma 3 Intermediate goitre) adenoma 4 Fortal adenoma

subdivides thus first, the growing phase, second, the involutionary phase, third, the colloid phase

The relation of the percentage jodine contents to the anatomical structure and to the physiological phases of these tumors is given exhaustive study and his results may be briefly summarized as follows

"There are all gradations between strictly non tumor, simple parenchymatous overgrowths at one end and true fortal adenomas at the other end of the series

' By comparing the percentage iodine contents of these tumors with their structure, a general relationship can be made out which is similar to that noted in the non tumor overgrowths in that they have growing, involutionary and colloid or resting phases

"Neither the structure of the tumor nor its jodine content bear any essential relationship to the non tumor tissue of the same gland save that these tumors are not seen apart from a general hypertrophy or hyperplasia, and therefore are not strictly independent growths. The most marked evidence of independence is seen in the foetal adenomata, and progressively lessens toward the non-tumor hyper-

"Cohnheim's conception offers the best explanation of the origin of these tumors when one enlarges it to include the conception (1) that there are potential tumor anlagen formed at different physiological ages of the development of the main thyroid mass, and (2) that the stimulus for tumor growth is the same as for that of the thyroid as a whole These growths may tentatively be con-sidered as 'partial tumors'" George E Beilby

Mori. The Appearance of Thyreotoxic Symptoms in Tumor Metastasis into the Thyroid (Ueber das auftreten thyreotoxischer Symptome bei Ge-schwulstmetastasen in der Schilddrüse) Frankf

Zischr f Pathol 1913 x11 2
By Zentralb! f d ges Chir u i Grenzgeb

The author discusses the cause of Basedow's symptoms of disease in primary malignant tumors of the thyroid and in thyreoiditis The explanation is that the tumor growth changes the products of secretion (dysthyreosis) or the primary proliferation causes an irritation which finally leads to malignant degeneration That secondary metastatic tumors growing in the thyroid can give pronounced clinical symptoms of a Basedon is shown by three cases which are reported at length

I Sarcoma of the pelius (Hirschfeld Zentralbl f Nerrenheilk . 1906) A secondary typical Basedow resulted Aside from other metastasis there were three nodules the size of a cherry stone in the thyroid, which itself was not enlarged 2 Melanosarcoma There had been an enucleation 15 years previous Five months before death a metastatic sarcomatosis developed There was a struma The pulse was accelerated Autopsy showed generalized metastasis The thymus was replaced by a tumor 3 Carcinoma of the breast. The pulse was increased There was a struma with hyperhydrosis

and exophthalmos Autopsy showed large noducls in the thyroid

Histologic examination of the involved thyroid showed a simple colloid tissue The follicles, however, were compressed by tumor or proliferated connective tissue and were flattened out. They were filled with colloid which was scarcely stainable The characteristic changes in Basedon of a papillary probleration with high couthelial cells was wanting On the other hand there was a rich new formation of vessels. The author believes that the altered secretions of the folicles compressed by metastasis were introduced into the circulation in larger quantities and therefore produced thyrotoxic symp-

Bircher: The Etiology of Endemic Goiter (Dic Actiologie des endemischen Kropfes) Ergebn d Chir

" Orth, 1913, v 133

By Zentralbl f d ges Chir u i Grenzgeb

The author has made a comprehensive review of the literature and a systematic review of the various theories as to the etiology of goiter The chapters from Bircher's pen on the connection of gotter with the soil and drinking water are of especial interest Bircher's demonstration of the occurrence of goiter. especially over marine deposits while eruntive formations, chalk and sweet water formations in general are free, has been confirmed by newer works (Lobenhoffer and others) but has also been opposed by others (Weichardt and Schittenhelm. Hesse) Bircher demands detailed investigations in connection with exact geologic considerations He brings new examples of the influence of drinking A village was infected with goiter to a high degree by a water supply from "Muschelkalk" He reports attempts to produce gotter in animals by feeding with "Kropfwasser" Bacteriological find ings, effect of inorganic and organic components of the water, colloid radioactive substances, observa tions of familial goiter in the progeny not growing up in goiter districts, are reported Pregnancy and other incidental causes are briefly discussed conclusion the theories concerning goiter heart" Bircher found hypertrophy and are discussed degenerative phenomena in his rats Strumectomized dogs show an increased pulse rate after 'Kropfwasser" An unfavorable effect on the cardiac activity was also noticed in operated "goster hearts" after returning to the source of the gotter The gotter heart is an independent disease picture and included in the conception of cretinic degeneration as a direct consequence of the strumigenose toxins present in the drinking water Hourz

Crile. Present-Day Conceptions of the Pathologic Physiology of Graves' Disease from the Surgeon's Viewpoint. Cletcland II J. 1913 xii, By Surg , Gynec & Obst

The author has drawn his conclusions from 254 cases of exophthalmic goiter At first, hyperthyroidism following operation was supposed to have been due to the absorption of the thyroid secretion from the cut area. This was disproved by cauterization of the raw surface and also by packing the wife opening with deviagors.

Having observed hyperthyroidism to follow fright alone this factor was excluded by appropriate technique whereby he was able to steal the gland without the patient's knowledge. This reduced the

hyperthyroidism to per cent

Lurthermore having seen hyperthyroidism and even death following a tructure in an exophthalmic gotter pattent he meat but on the general theory that part of the hyperthyroidem was due to triumatic stimuli. In tirrives discuss there is a low threshold in the brain to ill stimule. Moreover they have a minimum amount of reserve nervous force. Working along the general hypothesis of the nathologic physiology of surgical short namely that shock was due to driving the motor mechanism of man leading to the activity of the brain cells and consequent nervous exhaustron, he but upon the plan of excluding ill triumitic impuls s from reaching the brain at the time of operation and for several days following by blocking the entire operative held with povocing and outpine and urea hadro-Thus he was able to protect the brain with its low reserve force of nervous energy from the stimuli trising from both psychic factors and This last stage was reached in his 120th traueta. operation. By these procedures hyperthyroidism was practicilly benished

Every patient had edisting throad enlargement by reason of either hypertruphy hyperplasts or tumor. Their the operation in every case within the first div of two the pair no expansioned scalpettics ribid from nervources. Take of mental worsy during the considerance gave a much more brilliant result than when this way present

In some technique that prevente the so either his perthy milms also prevents the so-tilled expite wound tever or the through patients. Reportly wound tever or the through patients. Reportly milms are made and applied of milms for the an increased output of energy. By the above technique, the bread being protected from all such stimuli reaching it no heperthyroidism followed.

When the disease was of long standing and in patients of poor physical affective results were correspondingly less brilliant. The improvement continued from six mouths to two years. The altimate outcome of the patients depended largely on the environment and medical direction during the way following operation. The general surgical

the vent is as follows

Every patient should be first given real phase at and psychia, red. If not redieved within two months the operation is done early the result is almost certain. If the the results depend on the amount of damage already done to the central nervous system and the glandular structures in the body. Crile. The Kinetic Theory of Graves' Disease
Am J. M. Sc., 1913, cxls., 28

Its Surg. Open & Other Critic discusses the thornes of the manner of production of Graves' discuse and compares the choncins opture presented to that produced by the emotion expecials for. He shows that the patient suffering with Graves discusse presents a parties of shorter with Graves discussed to the proposition of the proposition

fight or flight, and that all of the organs are affected those which are to be actively engaged in the struggle (skeletal muscles heart respirator) organs (tc) are stimulated, while the useless functions are inhibited (directive procreative etc.). Mimot excite the same thing harpens in horethy making

This line of reasoning Crife thinks explains the strological connection in cases of Grives these which are known to come on after mental strain worst shock etc. All varieties of fear

Craves disease is a diserts of the motor mechanism which may be induced by overstimulation of the nervous system which in turn causes an overproduction of thyroid scretion. Thyroid scretion in turn is an exatinate to the nervous system and thus a virious right is established.

Mental and physical rest will frequently break the visious circle, and to this is due the cures obtained by rest in bed. Were it possible to put the brain at absolute rest. for it to hiberarite—a large percentage of the cross of Graves discriss could be cared by this means due. Justs F. Chi kentil.

Grober Spontaneous (ure of Basedow's Disease Urber 'selbethe lung von Basedow'scher Krankbeit) Hunden med Uchnicke 1912 le 8

Ily Zentralbl f d ge Chir u i Grenegeb The author reports a case which was observed from 1000 to 1012. The symptoms of Basidon were very pronounced at first and decreased each year without treatment so that objective biidings were scarcely demonstrable. The subsective complaints had entirely disappeared. At the same time that the Basedow disappeared there developed an affect tion of the lung which was probably tuberculous The author thinks that the symptoms of Basedow were overcome by the appearance of chemically active substances from the lung disease. The author does not attempt to decide whether it is the tuberculin which, according to the French is the active agent since they regard Basedow's discuse as a form of tuberculosis. The products produced probably compensated the harmful products of the the rold and so caused an improvement of the condi-

Brown Conservative Treatment of Tuberculous Glands of the Neck, Based upon Their Pathology | Med Rec., 1013 laxxiii 12 | By Surg Gynec & Obst

For the past four years the writer has been treating tuberculous cervical adentis in accord with a better understanding of himg pathology and applying this knowledge along the lines of physiol ogical surgers rather than what are termed radical methods. The success uttained from these more conservative methods points to a sound basis in

pathology Pathological studies demonstrate as we should expect on anatomical grounds that infection of the glands through the blood streum may occur aside from miliary septicamia. In a chart of chinical and path ological data an attempt was made to differen trate by histological picture the hematogenous and lymphogenous infections While in practically every case of scrofula lesions were found in the marginal sinus and at the periphery of the follicle (probable in the sinus wall) occasionally others lay in the heart of the follicle or but slightly excentric. One fact of paramount importance presents itself namels that these patients are suffering not with a local disease but with a general systemic infection which at this time is held in check by a good resistance

We first observed this sexeral vers ago while doing the block dissection U that time, we were removing in all cross the glands and gland be ring lasera and yet we always jound minute, glands following along the vein so deeply placed that complete removal was impossible. These small pin head glands were thought to be merely tour but on section many were found to be tubervulous. However, in these cares healing occurred by primary union and the pitterist are alike and well to dry

It was customary at that time to treat all small single glands whether with or without sater glands first by removal of the portals of infection (tonside adenoids etc.) and secondid by simply incresson into the supporating foor. This latter procedure led into the supporating foor This latter procedure led into the supporating foor. This latter procedure led into the supporating foor This latter procedure led into the supporation of the same as economic infection was often and the support of the s

In order to preduce local adema and cell proliferation, the author produces. But the lyte proliferation the author produces. But the lyte and by a simple elastic band about the neck for a few hours before operation. Then a very small state nectsion is made into the gland and the contents are excatated by a dull spoon using no force or rough manipulation and being cartful not to birak through the capsule not to made the protective phagedent zone, and without washing or wiping out the castigt 10 a per cent formalin in glycerin is introduced and

the incisson sealed Primary healing occurs in 50 per cent of the cases Of the remaining 50 per cent, 30 per cent have only a serous discharge which cesses after three or four more injections, and the remaining in per cent supportate, more or less, depending on the delicacy and completeness of the technique

At the same time this local treatment was started we began a more systematic attempt to increase the general resistance of the patient — forced feedings, 24 hours a day out of doors, and other methods treatment which were recognized as applicable and beneficial in all cases of tuberculosis. The treatment of these simple cases was os successful that we applied

our methods to more extensive gland involvement. The injection of tuberculus B had little or no effect, but the enzymes of yeast seemed to be the connecting link needed in the treatment. It has been applied in more than 85 cyss. Futeen of these cases were treated until we became satisfied that some more radical method was indicated to start the process of body repair.

Of the other 70 cases; 50 art well without gland involvement 10 are recent cases under treatment, three wire lost sight of after the first treatment, and an infant with both cervical lymph chains involved died with some intercurrent summer durrhear while away from home

Reducal operation for cervical glands is a manner. No operation for this disease can be radical since the glands are so numerous that complete removal is impossible. The most we can do is to remove the lymphatic chain involved, with its infected outlying glands and gland bearing fascia.

Streissler Cervical Ribs (Die II derippen) Ergebn

d Chir u (brlie)p 1913 v 280

By Zentralbi f d ges Chir u i Grenzgeb

There is not complete unanimits of opinion among nationists as to the degree of dischopment and it ye of origin which should determine the applicability of the term cervical ribs. Though in principle these cervical ribs are traced to disturbances in the development of the germ plasma we runni quite in the dark as to their final causes. The author defines a cervical rib san formation in the place of the processic costamus of the first to seventh exercised victories—as any formation in the place of the processic costamus of the first to seventh to proceed the control of the processic costamus of the first to seventh to proceed the place of the place

like a common rib He gives a general description of the different varieties of cervical ribs and a detailed description of their parts supplemented by photographs and skiagrims. He also discusses their relations to adjacent tissues and organs the musculature of the nick the nerves and the pleura. He finds that disturbances as aneurisms and thromboses may result from compression of the atteries Neuritis and disturbances of sensibility and motility of the plexus especially in the region of the first dorsal and the eighth cervical vertebrae also occur. More remote signs of pressure may appear in the area of the sympathetic nerve in the eye the heart and the thyroid gland Pressure on the phrenic nerve will cause diaphragmatic cramps A striking fact is the frequent association of tuberculosis of the apex of the lung with cervical ribs This is to be explained by the confinement and deficient ventilation of the lungs, in the sense of I round's theory The connection of cervical ribs with scoliosis is still a matter of dispute Garré, in assuming this connection, regards it as a scoliosis with very high localization and uncommon rigidity, in which convexity in accommodation to the direction of the cervical ribs is frequently associated with company itera scoliosis. at the border line of the chest and the lumbar verte bræ Garri expluins this form of scoliosis by the influence of mechanical factors while according to Streissler it is simply a subspecies of congenital scolosis and its etiological association with cervical ribs is purely accidental. As such a cervical rib need not necessarily cause disturbances of any kind but such disturbances may be caused by the growth of the rib during adolescence. Involution of the admose tissues may take place in old age or after severe illness and not uncommonly results from

trauma Periostitis, curvatures, and fractures may cause prins by pressure on the surrounding muscles For these reasons this congenital anomaly should by no means be neglected. It calls for therapeutic measures among which operative intervention deserves preference over the conservative methods Resection of the rib by the anterior route is by far the most frequent form of the operation, while Streissler employs the posterior

to deaths have been observed in these operations In 77 per cent of the cases the complaints were re moved and in that sense cure obtained 13 per cent resulted in improvement, while 10 per cent were failures. It must not be expected however, that the complaints will cease immediately after the operation their disappearance after two weeks to two months must even be considered a rapid cure

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Hadda Total Concentral Rib Defect (Der totale angeborene Rippendelekt) Zische f orth Chie 1013 XXXI 176

By Zentralbl f d ges Chir u i Grenzgeb

Hadda has gathered 20 cases of total congenital rib defect from the literature and adds 3 cases of his own observation. Unlike a partial defect the total defect of a rib is a relatively rare finding and may be easily overlooked. It occurs frequently with other developmental defects especially a high standing scapula and malformations of the vertebral The associated spinal curvature brings the patient to the physician According to the author these anomalies will be less easily over looked if every case of scoliosis is examined with the Rontgen rays over the entire thorax

YON I RISER

Contributions to the Physiology and Rasch Pathology of the Thymus, the Relationship of the Thymus to the Thyrold (Bestrage zur Physiologie und Pathologie der Thymus, die Beziehung der Thymus zur Schilddruse) Zische f

exp Pothol u Therap, 1913 xtil 180
By Zentralbi f d ges Chir u i Grenzgeb

The author studies the disturbances of the grow ing bones and of the nervous system after experi mental extirpation of the thy mus and thy rold effect of the thymus on the growth of the skelcton is a limited one After the atrophy of the thymus the thyroid induces the development of the bones Liectrical hyperirin ibility in the peripheral nerves develops gradually after resection of the thy mus and promptly after excision of the thyroid. The functional parallelism of the thymus and theroid is seen further according to the experiments of Basch in the similar effect on the action of the pupils following thymectomy and thyrodectomy Mydriasis after

application of adrenalin appears in a thy mectomized dog after two or three weeks, after excision of the thyroid in a few hours. It is probably the diminu tion of the lime salts in the tissue fluids which produces the increase in irritability of the oculomotor nerve and the sympathetic. The function of the excesed thy roads cannot be taken up by an increased function of the thymus The appearance of tetans is only delayed A decrease in the size of the thy ford results in a loss of weight of the thymus, and vice versa a large tharoid is accompanied by a large thymus The Basedon thymus is an expression of the functional synergie of both organs and is dependent secondarily upon the appearance of symptoms of a disease of the thyroid

D'Auria A New Contribution to the Radical Cure of Exudative Pleuritis (Nuovo contributo sulla eura radicale delle pleuriti essudative) Giorn inler naz d scien e med 1413 xxxv 22 By Zentralbl f d ges Chir u i Grenzgeb

D Auria employs the following method of treat ment for extensive pleuritic extravasation. Using Potain's apparatus and making the puncture in the seventh intercostal space on the left side and in the eighth on the right side he slowly drains off the exudate he then rinses the pleural cavity with an iodine solution using the same apparatus. He describes the solution as iodine in sterilized solutio jodurata. For serous exudations he employs a 20 per cent solution and one of 30 to 50 per cent for purulent exudations. The solution is left in the thoracic cavity 5 to to minutes and is then removed by means of an aspirator. In serous exudation he has obtained good and rapid results - even in one case of primary tuberculous inflammation of the In cases of purulent exudation good results could be obtained only where the purulent stage had just begun, otherwise resection of the rib and

opening of the pleura became necessary. The 10dine solution, in this case, has an effect similar to that obtained in puncture for hydrocele with subsequent injections of iodine - that is, it causes in flammation As a result of this inflammation ad besions are formed and thus the further accumula tion of fluid is prevented. In the author's opinion a considerable influence is also to be ascribed to the bactericide action of rodine HERHOLD

Höniger Tracheostenosis Thymica (Ueber die Bettr z klin Chir Tracheostenosis thymica) 1913, İxxxii 484 By Zentralbl f d ges Chir u i Grenzgeb

Honiger contributes an interesting case of tracheostenosis thymica A girl 4 months of age suffered from attacks of dyspinces which at first were re-heved by intubation but later necessitated the resection of a piece of thymus The skingraph did not present an enlarged shadow of the thymus nor was the thymus visible in the judulum at expiration

However as the operation resulted in recovery, and as the thymus was even microscopically normal, Honiger discusses the possibilities of pressure by an apparently unenlarged thymus Either the thymus had already exerted a deleterious influence on the structure of the trachea during the intrauterine period, or increased secretion caused a temporary swelling of the organ The author recommends intubation as a first measure in such cases KLOSE

TRACHEA AND LUNGS

Sehrt. Tracheotomy of Urgency with Special Consideration of the Complications in Goiter (Die dringliche Kriko-Beziehungsweise Tracheotomie mit besonderer Berücksichtigung der Kropfkompli-kationen) Med Klin, 1913 it 132 By Zentralbl f d ges Chir u i Grenzgeb

Sehrt reports a method of tracheotomy in cases of gotter and enlargements of the isthmus of the thyroid which causes only a slight wound in the lary nx and which can be rapidly and safely executed

The head of the patient who may be lying down or sitting is bent back as far as possible tensible hooked cartilage forceps is then forced with firm pressure into the center of the thyroid cartilage near where its lower border can be felt, and pressed as deeply as possible into the angle which is formed by the two plates of cartilage. While the left hand now gradually and firmly draws the forcers toward the chin thus bringing the trachea out from behind the struma the direction taken by the trachea should be noted A knife is then inserted 32 cm below the point where the hooks of the forceps have fastened into the skin and with firm pressure is forced verti cally downward always holding exactly to the median line of the thyroid cartilage. If the cartilage is resistant because of its calcification one must gradually, millimeter by millimeter, feel his nay downward with the knife, until it pierces the trachea

By this procedure serious accidental injuries are excluded After cutting the trachea the incision is extended in an upward direction and the prongs of the forceps are distended to permit the insertion of a cannula. In case of calcincation of the cricoid cartilage it will not be possible to distend the forceps, in that case the opening must be enlarged by a transverse incision, the cannula is then inserted along the blade of the knife The wound can now be readily extended and dressed So far the author has not tried his method upon the living subject ILNSSEN

Behrenroth Echinococcus of the Lungs (Der Lungenechinokokkus) Ergeb d inn Med u Kinder heilk , 1913, x, 499

By Zentralb! f d ges Chir u i Grenzgeb

Consideration of etiology pathogenesis and pathological anatomy In the symptomatology the fact is brought out that most patients with pul monary echinococcus are held to be tuberculous until the characteristic elements in the expectoration leave no more room for doubt In spontage ous perforation and even in single puncture an urticaria or an eruption simulating urticaria is observed at times also threatening symptoms, dyspnote singultus etc. which are to be regarded as anaphylactic For this reason the indications for puncture are bruted Explanation of the anaphylaxis In the chapter on serology the precipitin reaction and the complement fixation method are considered

The precipitin reaction is carried out as follows To 12 drops of serum 1 cc hydatid fluid is added and allowed to stand 24 hours at room temperature In human beings only 75 per cent are positive rare cases even with absence of the echinococcus, it may be weakly positive. Only a positive reaction is of value

The complement fixation method is a specific re The hydatid fluid must be obtained from action sheep Their antigen is in the highest degree specific According to Henius the cyst contents act as antigen at least half a year The hydatid fluid and watery and alcoholic extracts of the cost wall may give a positive reaction with the serum of tancworm carriers. Hence with a positive serum reaction for echinococcus we must also think of the presence of a tænia HOPFWARY

Kellock A Case of Pneumonotomy for Foreign Body Lancet Lond , 1913 cleaxis 92 By Surg , Gynec & Obst

The author reports the case of a boy 412 years old who four days previously had swallowed a shawl pin about 2 inches long 1 skiagram showed the shadow of a pin at the level of the third rib on the right side apparently in the right bronchus, with the point upwards. The day after admission an effort was made to remove the pin through a bronchoscope On June 12, a low tracheotomy was

performed and an endeavor made to remove the pin through the wound and also through the larvnx. on the 13th and also on the 19th this was again attempted but without success On June 24 under an anasthetic and with the aid of a fluorescent screen, the author made an attempt through the tracheotomy wound to remove the nin by means of instruments made out of gum clastic catheters. At this time the pm was lying almost vertically with head apparently about three quarters of an inch above the diaphragmatic surface of the right lung On July 3, an open operation was performed square flap consisting of skin and superficial muscles measuring about a inches in width and depth was reflected backwards the edges of the flan being parallel to the direction of the ribs and the posterior ends of the upper and lower incisions reaching to within about an inch of the middle line of the back The flap consisting of ribs intercostal muscles and pleura was turned completely backwards on the hinge formed by the posterior section of the ribs A window about 3 inches square was thus made into the pleural cavity

Two fagers of the left hand were passed into the bung and the lower lobes of the bung and the lower lobes of the bung and the lower lobe pulled outwards and steadied Directly this was done the tip of the finger of the right hand in the wound in the bung felt the head of the pin and it was easily extracted with sinus forcers. It was found to be a steel pun 1's methes in length with a glass herd about one eighth of an inch in diameter. The child made a rapid recovery after a few they.

Donald C Balpour

Raer Contribution to the Surgery of Lung Cavities (Bertrag zur Kavernenchrurgie) Beri klim Wichnschr 1911 | 107 By Zentralb! (d ges Chir u 1 Grenzgeb

The slight chances of a spontaneous cure of large tuberculous cavities as well as the long duration of The ideal such cures justify surgical procedures method is pneumothorax, but this fails if there are pleuritic adhesions For such cases the methods of extrapleural thoracoplastic surgery come into ques As large cavities in the apex of the lung cannot be made to collapse either by pneumothorax or thoracoplastic surgery (which is contradicted by Sauerbruth subservations of Sauerbruch u Elving, 'Die extrapleurale Thorakoplastik") the author has devised another method. This consists in re secting a number of ribs above the cavity and sub costally loosening the parietal pleurs, thus giving the cavity a chance to collapse. The cavity left after the lung has collapsed is filled with a paraffin plug which serves the further purpose of insuring permanence of the collapse

After experiments on animals and dead bodies, the author employed his method in the case of a young man 23 years of age who presented a large cavity in the right superior lobe. A thorscoplastic operation after the method of Wilms not having

brought the desired result, an attempt was made. after resection of the ribs to cause collapse by the extrapleural thoracoplastic operation. This attempt was successful A fistula formed, however, as a result of necrosis of part of the wall of the cavity At a third operation, this fistula was enlarged by means of thermocautery The cavity was drained for a time and showed marked tendencies to col lapse its walls becoming normal as fresh granula tions were formed The tubercle bacilli disap peared from the sputum and the general condition improved Further treatment should consist in change of dressings and tamponment of the exterior cavity at gradually prolonged intervals and beht and Rontgen ray illumination. If it is possible to produce proliferation the cavity should be filled by a plastic operation and the outer wound sutured

of necessary
The condition of the patient subsequently was much improved the bronchial fistula has closed, the test for tubercular bacilit remained negative, and the patient looked well and was gaming in weight. To anticipate criticisms, the author contraction of the contraction

Meyer Artificial Breathing (Ueber kunstliche M mung) Zischr f örzil Fortbild 1913 x 11 Br Zentralbi i d ne Ganab u Cabarth a d Grennech

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb Artificial respiration can be effected (1) manually, (2) with apparatus (3) combined after stopping of respiration from (1) mechanical obstructions of respiration (2) porsoning. As the most ideal, that method should be employed which approximates the condition of maximal inspiration and maximal expiration t purely inspiratory procedure is the method of Marshall Hall by rolling Expiratory is the method of Howard by compression of the lower thorax in dorsal position Shafer's compression of the lumbal region in abdominal position and Buland's by pulling both shoulders upward in the same position. Silvester has a combined method All procedures in abdominal position are unwarrant Loewy Meyer obtained 2000 to 3000 cc air ventilation of the lungs by a modified Silvester method. After the mouth has been cleansed and the tongue tied to the chin the arms of the patient who is placed on the ground with the shoulders somewhat lifted are seized above the elbow and pressed to the ground behind the patient's head, then the grasp is changed and the arms brought forward to the middle of the chest and pressed backward and upwird six to eight times in a min-Oxygen apparatus are important in diseases of the respiratory and circulatory organs and change of hæmoglobin from poison. The exygen apparatus are effective only with simultaneous venti lation of the lungs atmospheric air must always pass besides the oxygen

HEART AND VASCULAR SYSTEM

Lucas. Surgery of the Heart (Zur Herzcherurgie) Dutsche med Il chusche, 1913 XXXIX 166

By Zentralbl f d ges Chir u i Grenzgeh

The author reports two successfully operated cases of severe stab and gunshot wounds of the heart Both cases presented the picture of heart tamponade The bared heart showed no pulsation but only a few single fibrillary twitchings. In the first case the anterior wall of the left ventricle showed a per forating wound while in the second case both ven tricles were shot through. On the basis of the experience gained from these two cases the author recommends the haring of the heart through the area uncovered since this furnishes an excellent en trance and an injury to the pleura in case such does not yet exist may be avoided. This is especially important in those cases where a pressure apparatus is not handy. Drainage of the heart sac is strongly recommended. In both cases direct massage of the heart proved to be an excellent means for reviving The conservative method recently advocated for diagnosed or supposed heart injuries is not recommended by the author. He rather favors operation even in injuries of the pericardium. because of his observations of similar cases where no operation was undertaken and in which the results were fatal

Dunn and Summers Observations on a Case of Mediastinopericarditis Treated by Cardiol-

YSIS Im J W Sc 1913 CXIV 74 By Surg Gynec & Obst.

Patient was a man aged 20 whose previous history was negative except for diphtheria in childhood History of present trouble dated back three years Typical signs of adhesive mediastinopericarditis

with marked cardiac hypertrophy and broken compensation Compensation regained in three weeks Ten days later Summers resected the sternal ends and costal cartilages of the left third fourth fifth and sixth ribs flush with the sternum through a U shaped musculo cutaneous flap The exposed area of pericardium and pleura measured 5 x 412 inches Recovery both immediate and remote was satisfactory

The authors discuss the varieties and mechanism of adhesive pericarditis JAMES F CHURCHILL

PHARYNX AND ŒSOPHAGUS

Lewisohn A New Principle in Œsophagoscopy and Gastroscopy Ann Surg Phila 1913 hu 28 By Surg , Gynec & Obst

The unpopularity of the straight resophagoscopes is due to the fact that they do not adapt themselves to the right angle normally existing between the mouth and ersophagus. In using them it is necessary to adapt the patients to the instrument by forcibly overextending the head. A satisfactory ersophagoscope must fulfil the following three main requirements

I The introduction must be possible in the normal position of the head 2 The instrument must be so constructed that

it actually passes into the longitudinal axis of the resonlagus and not at an angle to this axis

3 The esophagoscope should be passed down ward along the resonhagus under the guidance of the eye to avoid perforations

Resed on these main considerations, the author has devised a telescopic instrument which represents a new principle in the construction of esophagoscopes and gastroscopes and may even be applied to bronchoscopes The instrument consists of two portions - the horizontal part, which hes in the mouth of the patient during the examination and the vertical portion composed of a telescope of six separate tubes This latter can be pushed down into the resorbagus as far as necessary by means of a soring Attached to the lower part of the upper tube of the telescope are two metal guides which act as an obturator and materially facilitate the introduction of the instrument into the upper part of the esophagus

The examination of the patient can be divided into two stages I The 'anchoring' of the instrument in the upper part of the ecophagus. This occurs automatically by means of the metal guides The passage of the resorbagoscope into the

deeper parts of the a sophagus under the guidance of the eye of the examiner

During the entire examination the nationt sits on a chair holding the head in normal position. When the examination is finished the spring is gently pulled until the telescope is again closed. The closed instrument is then withdrawn from the mouth

The advantages of this right angular telescope. as compared with the straight tube, are marked The most obvious is the fact that the patient is not put into any strained position but the head is held naturally during the entire examination

The author discusses the importance of resortagoscopy for the early diagnosis of cancer of the ersophagus and for the differential diagnosis between esophageal and mediastinal growths

report of the clinical results obtained with the aid of this new instrument gives the data of ten cases mostly carcinoma of the resonharus pictures obtained during these examinations are given in a colored plate

In conclusion the author refers to his experiences with a gastroscope constructed on the same principle

Frangenheim (Esophagoplastic Surgery (Orsophagoplastik) Irgebn d Chir u Orthop 1913, \ 406 By Zentralbl I d ges Chir u i Grenzgeb

The author enumerates the various methods of partial ocsophagoplastic surgery of the cervical portion of the resophagus (the methods of von Hacker, Poulsen, Rokitanzky and others), and demands that gastrostomy should precede every resophagoplastic operation The formation of the resophageal tube, in partial resophagoplastic operations, may be undateral or bilateral. The chief sutures may be most efficiently covered by employing flaps, with

the pedicle either above or below

The following methods of total ecophagonlastic operation are then described Bircher's formation of a cutaneous tube from the skin of the chest. Wullstein's employment of the small intestine and the skin of the chest in animal experiments. Rour's resophagojejunogastrostomosis, the combination of Roux's and Wullstein's methods by Lever, the plastic formation of an ersophagus from the wall of the stomach by Hirsch and by the different method of Jianu, and finally the employment of the transverse colon by Kelling and Vulliet Roux's procedure almost always resulted in gangrene of the intestinal flexure which had been shunted and brought out into the wound The cause for this is to be found not only in compression of vessels and torsion of the pedicle but also in alterations in the vessels (arteriosclerosis) As the chief objection to the methods of Hirsch and hanu the author cites the fact that in patients suffering from stenosis of the œsophagus,

the stomach is almost always markedly contracted From such a stomach it would not be possible to resect more than a very small flap, hardly extensive enough to reach as far as the xyphoid cartilage The skin of the chest lends itself very well to overing defects in the cesophagus. Cutaneous tubes of even ao om in length will be kept sufficiently nourshed

In total resophagoplastic operations if the esophagus is cut through transversely at the throat and if there are impermeable strictures, the aboral end of the esophagus must be brought out into the wound in the form of a fistula, or extirpated, in order to prevent any stagnation of mucous secretion or food in the neck If the croophagus is not com pletely cut and there is complete stenosis, the accu mulated secretion will find an outlet upward and thence pass into the artificial esophagus Observations and deglutation tests on human subjects hav ing an artificial esophagus have demonstrated the functional sufficiency of the new ocsophagus passage of food is somewhat slower than under normal conditions BOIT

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Schepelmann Experiments in Treatment of Perstonitis (Versuche zur Pentonitisbehandlung) Med Klin, 1013 1X, 102 By Zentzalb f d ges Chir u i Grenzeeb

Experiments on 86 rabbits showed that treatment of the persioneum with him water because of ats bacterical powers and its effect as a capillary construct, is beneficial but practically does not influence the course of persionatia. Homologous animal blood does not influence picture of the properties of the properties of the properties of the persional persional persional persional persional blood is even unprious. The formation of adhesions, however is increased by injection of either homologous or betroegenous shood.

Herff The Prevention of Post-Operative Peritonitis in Cases of Contaminated Laparotomy (Zur Vorbengung postoperativer Peritonitis bei ver schmutzten Laparotomen) Gjudk Rundschau 1913,

By Zentellab I d. ges Gynal. u Ceburths A G. Grengeb From 1901 to 10x Herff had 163 detable of which 31 were due to peritornis. During the first four years the had 15 cases of percinonitis migrans after "clean operations" but this class has disappeared some increased around protection has been introduced. In unclean cases the author makes use of two methods of prevention 1 Campber laboration to 100 cc. and 100 percinol to 100 percinol 100 perc

een perovide (especially Merck's perhydrol diluted 1 2 with mater) is used to insure asensis of the wound In abdominal hysterectomy, for instance, after the uterus is removed and the nelvis cleaned out, using drainage through the varing the cut edges of the peritoneum are clamped and the pelvic wound bathed in 20 to 30 cc of the diluted per hydrol After the edges become visible through the foaming caused by the perhydrol the wound is covered with peritoneum and 10 cc of perhydrol noured on before closing the abdomen. In closing the wound in the abdominal wall the muscle fascia and suture material are repeatedly washed with the perhydrol solution With this procedure the au thor has had excellent results in the healing of wounds favorable pulse rate and temperature. In regard to the formation of adhesions following the use of perhydrol Herff is performing some ex periments along that line the results of which are not ready

McGavin The Results of Filigree Implantation

103 By Surg Gynec & Obst

The following assumptions are made by the author (t) That Bassari's operation for inguinal hernal as an excellent method and can be applied accessfully to most cases in young adults (t) That when recurrence takes place a cure by this method is alighly problematical (t) That in the event of fastiers, seek tutther attending to the event of fastiers, seek tutther attending to mercase the prospect of recurrence (4) That the application of a truss is a confession of fastier, a disapportment to the patient, and very often the cause of the

enlargement of the hermal ring (5) That ventral hermas in the stout and elderly are uncontrollable by any form of retention apparatus, because the apparatus cannot prevent the spread of the herma laterally in the deeper planes of the abdominal wall

Since the introduction of filigree transplantation, 314 bernass of all kinds, excepting femoral bernia, 314 bernass of all kinds, excepting femoral bernia, shae been operated upon by the author Of these 363 were suguinal and 51 were umblated or wentral Ot the inguinal cases 106 were treated by filigree implantation, and of the umblico ventral 40, adding to these 20 cases of inguinal transplantation done on both sides, the total number of implantations of all varieties is 1660

Of the inguinal hermas, all but six were in men, any of whom were engaged in the hardest manual labor, viz stoking Of the 51 umbilical and central hermas, only 15 were in men and 36 in women, many of the latter being enormously stout Many of the pattents had repeatedly, been operated upon ineffectually. Since advanced age is considered as compromising a successful result it is interesting to note the ages of the patients Of the 146 cases of implication, 11 were over 60 years of age, 27 were between 50 and 60 48 were between 49 and 50 the remainder being under the age

of 40

The cases were dealt with by implantation for one or more of the following reasons—either they were of large size, of long standing, in elderly subjects were affected by the atrophy of truss pressure, exhibited a wide hermal gap, or they occurred in

men whose work was unusually heavy

Of all these cases only two suffered a recurrence both were of the ingunal variety. The first was one of the early cases which supported and the lada section shifted its position. A succeeding operation proved successful. The second case was due to the placing of the pube section of the filigree upon extrapentional issue which proved the pube section of the filigree upon extrapentional issue which proved and the berna recurred are not some transfer and the pube section of the filigree and the pube spine. The operation was repeated but it has only recently been performed. These are the only cases of recurrence and many of the operations were done more than six years of the operations were done more than six years

The presence of the filigree has given rise to no untoward symptoms there his been no pain dis comfort swelling, nor atrophy of the testis nor has there been any evidence of the excessive formation of adhesions even below the level of the earn luntr fold of Douglas where the filigree his rested actually upon the peritoneum. The following conclusions are reached by the

author
r I ew, if any hernias, whether inguinal or

- tentral, can now be considered uncurable
- 2 In filigree implantation is to be found the only true radical cure that we know of at present

- 3 The use of filigrees is attended by a slight
- 4 Suppuration is not an indication for the removal of a filigree
- 5 Wires displaced into sinus should be removed without disturbing the filigree
- 6 No belt or truss should ever be applied on the top of an implanted filigree
- 7 For the reduction of very large inguinal herinia and the avoidance of paralytic ilius the Trendelenburg position should be used, the abdomen opened and the bowel withdrawn from within, aided by pressure from without
- 8 In ventral hernias following appendicular abscess it is absolutely essential that the appendix be removed before implantation if this has not already been carried out
- o Although in ordinary cases the lines elsewhere land down with regard to the size, shape and position of the filigree should be adhered to as closely as possible it must be remembered that cases will arise which will tax to the utmost the ingenuity of the surgeon. In such cases hidebound rules are worse than useless.
- 10 It is important in dealing with gigantic hernast that every precaution should be taken for the comfort and safety of the patient. There must be skilled assistance, full facilities for aspess, a good light and plenty of it and, as a matter of choice, spunal analgesia should replace general anagesthesia.

Wellington Meckel's Diverticulum, with Report of Four Cases, Surg Gynec & Obst 1913, xv1, 74 By Surg , Gynec & Obst

After stating that this abnormality is present in only about 2 per cent of the human race, the author discusses its embryology and its different anatomical relations as regards use, location, and attachment to surrounding structures. He believes its custence a more serious meance than is an appendix, and advises its removal when found if the case nill permit. His cases were briefly as follows.

Case: Male, aged 50, had had an acute abdominal crass of two days 'duration, with 5s paptoms of obstruction \text{Valencess of probable appendictis was made but at operation a loop of boxel was found constructed by a Metckel subverticulum which was attached to the umbilicus I following operation, a facal fistult developed and the patient died too weeks later

Case 2 Male, aged 7, since birth had had a fistulous opening at the umbilicus discharging mucus. The tract was dissected out and was found to be continuous with a Meckel's diverticulum Patient recovered.

Case 3 Male, aged 58, had symptoms of an acute appendictus Operation revealed a gangrenous diverticulum which was removed Patient died three days liter

Case 4 Male aged 55, had been sick two days, with abdominal pain, and a diagnosis of acute appendictis was made Operation showed an acticly inflamed Meckel's diverticulum This, as well as the appendix, was removed The diverticulum was found to contain the breast bone of a small fowl, one prong of which had nearly

perforated Patient recovered

The author was able to collect and easts of disease anothing Meckle 3 cheritudium. There never a modified Meckle 3 cheritudium. There never a characteristic and control of the structure of the

The statistics are then discussed in more detail and a complete hibliography is found at the end

GASTRO-INTESTINAL TRACT

Roysing A Case of Total Gastroptosis with

Dilatation of the Esophagus (Lb Tilfilde af total Gastroptos, med Dilatation of Spiseroret) Hosp

By Zentralbl f d ges Chir u t Grenzgeb

The author reports a case of gastroptosis in a patient who was admitted in a condition of extreme emaciation By means of sound and Rontgen examination a dilatation of the esophagus just above the diaphragm was determined Besides this an extensive gastroptosis was found with the stomach close to the symphysis. At the operation one saw that both the cardiac and pylone parts of the stomach had descended considerably, the former to such an extent that a part of the ecsophagus 8 cm long was found immediately below the dia phragm No tumors or ulterations were discovered The dilatation of the esophagus had been produced by traction and kinking at the hiatus Hepatopexy gastropexy and gastrostomy were performed patient made a good recovery and after she had guned considerably in weight the gastrostomy wound was closed. When discharged 412 months after the operation the diverticulum had diminished to half its size and the patient was again able to eat Roysing cites this case as proof in a natural way against the assumption of Grodel and others that gastroptosis as a result of the loosening of both points of attachment of the stomach is inconcerable

Knhang of the excophagus as a result of gustoop toss described here for the first time my according to the author perhaps explain the so cilled cardiospasm with dilatation of the excophagus Royang has noticed repeatedly that the vomiting in gastroptosis has completely disappered after elevating the stomach by gustropexy or by an addominal binder Skeel: Report of a Gase of Fibroid of the Stomach with Perforating Ulcer, Transgastric Resection, Recovery Am J Oby, N 1, 1913 kvm, 421 By Surg Gyner & Obst

A male aged 48 previously well was taken cautily ill with harmateness and malaria. Ten days later symptoms of perforation appeared Operation revealed a round fibroma of the posterior stomach wall at the junction of the antrum and the pilorus. At the base of the tumor was a perforation of the mucous and muscular costs. A resection of the mucous and muscular costs. A resection of one through a means when the day the fibround was done through a means when the day the fibround shock resulted, but recovery ultimately followed. A Serior Heaver.

Barling Hypertrophic Stenosis of the Pylorus in Adults Lance Lond 1913 claxary 221 B) Surg Gynec & Obst

The author reports two cases of this condition The first was a male aged 27 with symptoms typical of pylone stenosis-periodic vomiting of large quantities of fluid evidence of stasis loss of weight, and severe construction The illness began three years before admission. At operation the stomach was comparatively small but its muscular coats were very hypertrophied. A firm massive thicken ing involved the whole of the nyloric canal and en croached a little on the antrum. The thickening felt like a solid muscular structure such as the body of the uterus it was nearly a inches long and about 112 inches thick A posterior gastro jejunostomy by the no loop method was performed and an easy recovery followed. The patient continues well and in full work nearly 4 years after the operation

The second case was a girl 17 years of age who do been admitted into the author's wards complaining of pain in the upper abdomen and comiting the tillness desired from a time set months previous to admission to hospital. The girl was evidently very till more so than one would generally expect to find in a case merely of simple stemosis of the pylorus and he thought from the character of the voint and possible she was suffering from a stenoist in the small intesting rather than at the pylorus and the thought arther than at the pylorus

Operation The pyloric canal presented a dense thickening shripply limited at both ends and resembling exactly the hypertrophic stanosis of young indust. The pertitional surface was quite smooth and free from my indication of ulceration there was no modulation and no firstion on adjacent parts. The usual operation of posterior gastro rejumosiony of the pertition of the clear the day optic collisions of the control of the

No facts were obtained suggesting the presence of stenosis in the patients' lives at an earlier date than that recorded in the preceding notes

DONALD C BALFOUR

Frédet und Tlater Hypertrophic Pyloric Stenosis in un Infant; Gastro-Fnterostom; at the Age of 13 Days, Cure (Sténose à petrophique du pylore chez un nourrisson, gastro-enferostomic à lâge de treuz jours gurrison). Bull, et mêm d l

Soc med d htp d Paris 1913 xxviii 868 By Journal de Chirurgie

This is the fourth infant which I redit his operated for highertrophic poloris stenous. Voimting appeared on the minth day and the operation wis performed on the thructuch. I transmissionly posterior gastro-enticostomy (by your Hackery rethod) was performed. Vicuous circle appeared which necessitated in operation four drivibility of the diseased of the performed. Vicuous circle appeared which necessitated in operation four drivibility of the diseased of the disease of the disease of the disease moved with the circle stenous moves of the disease of counting personal disease of the disease of the disease of the gastric lavage. The infant at the age of 100 days was in perfect condition.

In connection with this case Freder and Lixier discuss the therapeutic points involved operations to be considered are first gastro enter ostomy and secondly extramucosal pylorotomy followed by pyloroplasty. I redet chamed in his eather articles (Fredet and Dufour, Fredet and Guillemot) that pyloroplasty was the operation of choice when possible Stiles's earlier statistics Since then the more also favored pyloroplasty recent statistics of Scuddit and Richtet bave shown the results of gastro enterostomy under a more favorable light Moreover Fallot's researches on in fantile gastro enterostomics have shown that there is a remarkable adaptation of the digestive functions to the new anatomical condition created by this operation. At present the authors tend rather to favor gastro enterostomy and hold that pylo roplasty should be done only in the less difficult The surgeon's success however depends first of all on the condition of the patient when it reaches his hands and this in turn is chiefly a ques tion of the number of days which are allowed to elapse from the time of onset of the symptoms until surgical assistance is sought. MAURICA CHEVASSI.

Frédet Hypertrophic Muscular Stenosis of the Pylorus in an Infant, Presentation of a Case Operated in 1907 (Sténose do pylore par hypertrophie musculaire the z nu nourn-son, préenta tion dun enfant operé en 1907). Buil et mêm d 1 Sx mild d'hip d' Prizs 1012 xxvii, 380 By Journal de Chirurgie

Case 1 (reported by Dufour Fredet) Operated at the age of two months the patient 15 now 5½ years old and in excellent health Case 2 Pyloro plasty at the age of 30 days now 5 years and 3 months old Case 3 Infant of days of age operated late and in a cachectic condition Gastro cintrostomy Death by shock 20 howst later

The pathological specimen from this last case was very characteristic. The narrowing of the pylonic canal was due in part to an excessive development of the musculature especially of the circular layer and partly to overgrowth of the mucosa, the intri-

cute folds of which filled up the lumen of the abnormally long and narrow plotic canal. The micro scopic section showed no signs of an inflammatory process. The hypertrophy was manifestly due to compare a micro process that the primary lession is a princial gastriat whose size colors stemulis to the chinical picture of a whose size colors stemulis.

progressive pylone stenous From the symptomic point of view this case is also atypical. The usual history of two stages in the disorder was given. The first stage is characterized by comiting whose distinguishing features are its frequency (at each nursing) its violence (projectile) the constant absence of bile and the small quintity of the comittue. It is accompanied by gastria peristalisis. There is a marked and rapid loss of weight. In the second period the stomach didates, comiting occurs at longer intervals, the quantity of comitius is large weight remains stationary. The pylone tumor is difficult to make out in spatic of its volume and its firm consistency.

From the therapeutic point of view the lighter grades of stenosis which are amenable to medical treatment must be distinguished. This treatment

treatment must be distinguished. This treatment falls under the following heads

The reduction of any inflammatory process,

which may be superadded to the muscular hypertroph by date gratic large regulation of the nursing substitution for milk of more casily digested food etc. 2. The control of the spasmodic phe nomena by atropin etc. 3. The muntenance of nurrition while the storict is completely or partially mactive by means of injections of serum. On the other hand, when the early symptoms are

On the other hand when the early symptoms are ever secret this strones is presumably very mirked and probably is due to a primary malformation. In these cases much call treatment if intempted should certainly not be unduly prolonged because of the much infection. In the operative risk if the patient is too much infectibed.

Rammstedt The Operation for Congenital Pyloric Stenosis (Die operation der angeborenen Pylorusstenosi.) Zentralbi f Chir 1913 xl 3 By Zentralbi f d ges Chir u x Grenzgeb

The author recommends as the operation of choice in the congenital hypertrophic pyloric stenoses of the new born the invagination of the thickened muscle ring up to the uninvolved mucosa. whereby the construction and spasm are removed at one stroke This method is exceedingly simple and can be carried out very rapidly. In 2 cases, the author reached the desired result immediately, whereas in 3 cases treated by Weber's extramuscular pyloroplastile (2 Weber 1 author) the pylorus hecame patent only after a week (probably as a result of abnormal folding of the mucosa) The operative method previously employed (gastro enterostom), open pyloroplastile) are too extensive for the weakened infant and the stretching of the pylorus according to Loreta is too uncertain The author has not obsert of any distribunities from the exposure of the mucosi in cither of the two cases, covering with omentum seems to him unnecessary after his experience and by prolonging the time of operation peoprelizes the life of the moserable infant. The author recommends immediate operation and in author recommends immediate operation and in a diagnosis of pylorospasm with pyloric tumor has been madi, in the new-born. About simple liparotomy is not too diagrous for the weak-need infant. Report of a case history.

Pagenatecher: Gastropexy by Means of the ligamentum Teres (Gastropexie vermattels des ligamentum teres) Mainchem and Behasche, 1913, la 21 By Zentralbl f d ees Cher u. ferenasch

Plication of the ligamentum gastrohepaticum to relieve gastroptosis is impossible in many cases because of its delicacy and fragility Pagenstecher'in hanging up the pars pylorica (pastroptosis according to Grisfel is chiefly a pyloroptosis) uses a resistant material the ligamentum teres The direc tion of the pull is about the same as in the plication, because the ligamentum teres is inserted into the portal entrance close to the ligamentum gastrohen theum Pagenstecher severs the ligamentum teres directly at the umbilious, frees the lower part of the ligamentum suspensorium hepatis (whose free margin is formed by the ligamentum teres), from the anterior abdominal wall to the anterior margin Thus a flan is formed wider in front of the liver than behind which can be conveniently turned to the left and posteriorly to be fistened to the ante rior aspect of the stomach A torsion of the stom ach around its long axis is just as impossible by this method as by the plication of the ligamentum gastro hepaticum Pagenstecher advises against using a strip of free fasers in place of such a suspensory Corry

Fletcher: Subtotal Gustrectomy for Gustric Atony. 1m J Surg 1913 Aton, 19 By Surg Gynec & Obst

Fletcher states that in a review of the literature of gastric surgery he did not find a recorded case of gastric atony made worse by attempts at drain age in which gastrectomy had been deliberately undertaken for the purpose of cure. His patient a female aged 25 years was subjected to the following stomach operations (1) I posterior gastro enterostomy for drunage of a stagnant atomic stomach (2) A second gastro enterostomy three inches from the first made because the primary stoma was supposed to give insufficient drunage (3) I third gastro enterostomy at the most dependent part of the fundus on the anterior surface. The extensive adhesions so rotated the stomach as to make the fundus appear the lowest part of the viscus Pylorectomy and tearing down the third (fundus) anastomosis indicated because of great pain and projectile comiting (5) Subtotal gastrectomy the removal of all except a small pouch of the fundus, together with ten inches of the jejunum attached to the posterior wall of the stomach. The jejunum was anastomosed into the œsophizog gastine pouch. The proximit end of the duodenum was closed and the dustal end represented by four inches of the jejunum, implanted into the jejunum well below where it

entered the stomach pouch Recovery Hetcher remarks that when dealing with gastric neuroses there is some excuse for an occasional error on the clinical side of diagnosis - that the clinician is occasionally justified in advising an explorators incision, but there is no excuse for the surgeon who deliberately drains an atonic stomach He says the indications for stomach draining are clearly cut, and the safe and sane rule in gastric surgery is "I hen in doubt do not perform gastroenterostomy ' His case was remarkably improved six months after the subtotal gastrectomy but he quotes Mayo to the effect that operations upon atonic stomachs in neurasthenic individuals are seldom if ever followed by satisfactory results lasting for any length of time

Bartlett The Use of a Murphy Button to Effect Duodenojejunostomy after Gastrojejunostomy. Ann Surg Phila 1913 bu 8t By Surg Cyme & Olst

When a modern gastro-enterostomy is complicated by the course of a vicious circle—the shorter the loop the more difficulty we experience in performing a secondary enterto interostom.

In the case under discussion the author was un able to proceed in the customary way, hence an opening was made in the anterior wall of the stomach through which the positror gastro enterotoms opening rould be plaintly seen. The half of a Murphy button was thrust without difficulty through this into each intestinal loop and the new opening in the stomeths buttered. It was now no more opening in the stomeths buttered. It was now no long the stometh of the trunsverse colon forward and a first party some opening in the buttern after making.

The patient did not vomit again before leaving the

Von Haberer Arterio-mesenteric Occlusion of the Duodenum (Der arteriome-entenale Duodenal ver-chulta) Ergebn d (hir w Orthop 1013 v 467 By Zentralbi f d ges Grahk w Geburtsh s d Grenzgeb

The author consulers arterio mesenterio occlusion of the diudentum an articument compression of the diudentum and articuments compression of the diudentum and the foot of the mesentery the superior mesenteric arters thus forms as sharper angle with the aorta and the diudentum passing in this angle as compressed. If to this tension is this angle as compressed if the other tension is direction the displacement becomes more need.

The clinical picture is typical. The pulse rate increases suddenly usually accompanied by obstipation, increased peristalsis of the stomach, and severe comiting. It may end by collapse. Acute dilatation of the stomach may be superimposed If untreated, death may result The Schnitzler position usually brings recovery Lean emaci ated individuals with enteroptosis abnormalities in the mesentery, etc., are predisposed to the dis-The onset is very sudden, i e following a hearty lyugh as in one of the author's cases Opera tions, especially those causing a change in the posi tion of the organs in the abdominal cavity may be the cause If dilatation of the stomach is the most prominent feature of the clinical picture, the arturio mesenteric occlusion may be primary or may follow post-operative acute dilatation of the stomach Acute post-operative dilatation of the stomach can be present without duodenal occlusion 1 chronic form of the disease is also recognized which gives symptoms characteristic of intestinal obstruction NALTHER HANNES

Urrutia A New Case of Jejuno-Colic Fistula Due to a Peptic Ulcer of the Jejunum Following Gastro-Interostomy (Noureau cas de fistule jejuno-colique par ulcération petique du jéjunum con sécutive à une gastro-entérostomie) Arch d mail d'Talpar dig e d l mui, joiz vi 580.

By Journal de Chrurgie
The patient was 48 years of age and had suffered
for fiften years from prin which came on late after
meals In 1910 indubitable signs of pyloric stenosis
were present Ramonede then performed a poste
nor gastro-enterostomy, and rapid improvement was
observed.

After this, the patient used no discretion in diet or in the use of alcohole liquors. In Septem ber, 1012, he was again much emacrated and suffered from darrhora, there were fiftered or twenty stooks a day. The breath had a faccal oder and the tomus, which rarely occurred had the same characteristic. Succussion splash was present in the abdomen at a moment when the stomach was empty, as determined by the tube. Aspiration during the abdomen at a moment when the stomach was empty, as determined by the tube. Aspiration during the liquid study of the storage
Operation Adhesons were broken up The transverse colon in its middle portion was then found adherent to the joynum, which was much dittied and filled with fluid. The joynum extended from this point of adheson toward the left illac fossa. These joynus colos adhesons were broken up. The gazing opinial maximosis was then seen to be still the joynial anabomosis was then seen to be still the joynial part below it there was a perforation of the joynial part of the properties of the similar perforation on the posteroscapitation (in transverse colon The edges of the defects were thick, but fraible The two perforations were closed separately, recovery was uninterrupted

J ORINCZYC

McGuire: The Successful Removal of Over Eleven Feet of Small Intestine. Surg., Gynec & Obst., 1913, 711, 40 By Surg., Gynec & Obst

That a patient can have gangrene of over eleven feet of small intestine, as a direct sequence of the ordinary "sore throat," that diagnosis can be made sufficiently early to permit of successful removal and that such extensive removal can be made without permanent harm to the individual, make the following case of particular interes.

The putent was a young man of 20 years, in good health until April 1 1912, when an infection of his throat occurred. This was of no great sevently, but was accompanied about the fourth day with constigation cramp like pain all over the abdomen and in a few days with vomiting. April 9th vomiting had a foul odor, on the 10th was distinctly faced.

On entrance to the hospital, the same day he comited a large quantity of freal internal Leuro cytes 5,000 temperature 90°, and pulse 11°. The une showed a slight trace of albumin with negative microscopical findings. Palpation showed a distend of abdomen, but no mass Immediate operation revealed extensive gangeries of the ileum, due to mesenierie. Thrombosis The invoked bonel was anatomosis was made between the excum and remaining deum.

The patient had seven stools on the fourth day authout cathariss, and from six to eight on the succeeding days up to the tenth. On this day he suddenly went into collapse later passing a larguantity of blood from the rectum. From this day his convalescence was uninterrupted, the number of stools gradually decreasing.

It first he was placed upon a diet rich in starches and sugars and was given option to control the frequency of the stools. Later under the ordinary hospital diet he rapidly gained in weight, and the diarrhear cased without the administration of option. The change in the number of stools was doubtless due to his improved physical condition.

The removed bowel was measured, after the mesentery had been cut away, and found to be 316 cm in length. The discrepancies in the literature regarding the effect of removal of large sections of bonel suggest some error in the different methods To determine this fact the of measurement intestinal canal of several fresh autopsies were measured after different methods Eleven feet of small intestine were measured in situ, the usual method in operative reports This amount was then removed and measured with the mesentery attached The average length was ten feet and nine inches. The mesentery was then divided close to the bowel, the intestine placed in a straight line without traction, and the average length was ten feet and six inches

After careful search, the author concludes this to be the second largest resection of intestine in the American literature, and the tenth largest yet reported The patient was seen Jebruary 1, 1013. He has one large stool each morning, feels well, and now weighs 148 pounds, a gain of about 30 pounds.

Katch, Gerhardt, and Borchers Contributions to the Study of Intestinal Movements, Report No 2 (Butting zum Studium der Darmbesetungen Mittel 2) Hichr f exp Pathol u Therap, 1913

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

In a previous paper the authors report the tech move of their operation of inserting a celluloid abdominal window, through which observations were made. The physiological movements of the various parts of the rabbit's intesting (small in testine creum colon sigmoul and rectum) were observed. There are two kinds of movements in the small intestine - peristalsis and pendulum The movement in the proximal end of the colon seems to be mainly one of the haustra. This part of the intestine is Bohm's pill machine intestinal content is concentrated ultimately in the lower portion, the separated balls of faces are approximated one to the other like pearls on a neck lace. The formed masses are separated from one another by contraction rings 1 xperiments were tried to determine what effect physical stimuli would have Cold in the form of it laid on the window or applied as an ethyl chloride spray causes an increase in tone loss of motion and anymiz of the parts. Heat in the form of hot air applied to the window crused hyperæmix and increase in the pendulum and peristaltic movements. Heat ing above 50° (citises in arrest of movements and a scrotibrinous exudite glues the affected parts of the intestine together. This phenomenon is called sterile overheating peritonitis. It would be imof heat through the skin without causing scrious damage to the skin Massage causes an increase in peristalsis only if an intestine was in a previous state of irritability, otherwise only intense hy peramit is seen. Although Sanders was able to get contractions of the rabbit s intestine in sodium chloride bith by applying electricity, the authors failed to get an increase in the movements of the All these experiments were substan trited by observations on the intestines of an old lidy who had an abdominal hernix and whose abdominal skin was atrophic, non-sensitive and transparent

Katsch and Gerhardt Ibid Report No 3 p 253

The action of the following groups of reagents are observed through the abidomnal window Vagus stimulators—pubcarpino, physoxigimia, argus inhibitors—attornia, simputhetic stimulators—adferniah, nicotin, cuffen, opium alkalosi—adfender pubcarpin there is instantly and the pubcarpino proportion of the proportion of th

are exaggerated arregular in sequence and without purpose, more energy is consumed and less accomplished. A slight hyperamia becomes apparent at the same time. Physostiemin has the same action The authors believe that this vasomotor action is transmitted by the way of the vagus. The antag onistic action of atropin in small and large doses was not detected. Intravenous injection of 16 to 12 mg produced only a quiescence an effect on the tone and quiets the motor centers of the intestine Injections of adrenalin cause an instantaneous cessition of all intestinal movements and extreme an emia. It acts much more quickly than atrong due to the rapid dissociation of the former, and on this account rectal injections only affect the rectum and not the small intestine Secotin shows the same action on the sympathetic system and is observed only after giving large doses (affein causes tempor irs anomia and cessa tion of movement. Pituitrin brings about a marked stimulation of intestinal movements and a tempo rary anymus, which is followed by a hyperamia-These increased movements have however some thing ou ordinate about them not found with other vagus stimulators. After giving morphin there is an initial increase in the movements followed by a slow quiet rhythm l'antopon and apocodein hydrochlorale act in the same manner

Kutsch and Gerhardt Ibid Riport No. 4 p. 200

For pain and unpleasant odors cause an instantaneous costation of the intestinal movements. This is accomplished by animina due to the contraction of the splanchine vessels. Jos has the opposite effect the motilats being increased. This is probable reflex action by was of the vigus nerve.

Wrigley Acute Intestinal Obstruction Due to Volvulus of the Carcum 1 in at 1 and 1 ord decres 166 By Surg Gynec & Obst

The patient aged 29 had been in good health except for three attacks of uppendicitis the last being five works before the present illness, when she was operated on and her appendix removed un exentful recovery. She was seized with acute abdominal pain in the region of the umbilious followed by comiting and profuse diarrhoa. She stated that she vomited greenish fluid and was purged every few minutes but had not passed flatus for some hours. I welve hours after onset, she was admitted to Manchester Royal Informary looked extremely ill - features pinched tongue dry and furred temperature 100° I and pulse 114 On inspection abdomen was found to move freely with respiration and a large mass the size of a coconnut was seen in right that and umbilical regions and in this situation waves of peristalsis occasionally occurred Pulpation of abdomen produced comiting There was slight rigidity and extreme tenderness Rectal examination revealed great tenderness on right side of Douglas pouch

The laptotomy disclosed an enormously distincted excum, and considerable port of the ascending colon rotated anticlockwise around its long area one complete twist and thin acuttle fixed so that the crecum was long transvers is in the abadomen with the fundus of the excum just be, and the middle line abase the brim of the pelies. The entire crecum purt of the colon and the transpirit of the felicial port of the colon and the transpirit of the felicial port of the element of the pelies.

Comer and Surgent have analyzed 57 cases of volvulus of the calum and recognize three automical varieties. The author classifies this under the acquired variety.

(II Days

acquired variety

Andrews Appendix Abscess Discharging Pus Into the Urinary Tract is if Sems Monthly 1914 xvii 499 By Surg Gyme & Obst

In this interesting paper Andrews details four unusual cases of appendictal abstract and reviews several more from the literature. His cases were all of a chronic variety, the nationals having suffered from repeated attacks. They came into the hospital with marked uriners disturbance and pain frequency and decided poursa were prominent symptoms. Operation in all cases revealed in appendiced abscess in immediate relation to the bladder or rend pelvis, and in one case the app. nilix itself empired into the bladder by way of a direct In his second case the innendex laine anterior to the renal pulsis was adherent to at the time of operation no definite sinus formation could be determined but urine discharged through the lumbar wound for two weeks following interven

The cases are of particular interest in view of the fact that such chologic factors are frequently over looked and patients are treated merely for purulent processes occurring in the urinity tract itself

J S FISENSTART

Graham Primary Cancer of the Vermiform Appendix I for M J 1913 x 30 By Surg Gync & Ohst

The author thinks that dibough primary cares nome of the appendix is true at 8 of much more frequent occurrence that is popularly believed MacCarty and McGrath collected 5000 cases from the Mayo clinic 22 of which or 0.44 per cent showed primary carenomary.

The author has found in a collection of 172 cases of primary circinomy of the appendix that the distinctive chriateristics are (1) the beingin nature of the growth (2) the early age incidence and (3) the type of cell which is most commonly of the spheroidal type

Six cases are reviewed in the article and the salient features of these cases are (1) In 4 operation was performed for symptoms of appendicitis (2). The age of the patient in all the cases was under 30 years (3). The timor in 4 was situated at the form

and in 2 in the middle third (4) The tumor has a characteristic yellow color (5) The lumen in all cases was obliterated at the site of growth, and signs of old appendicits were found in these areas (1) No metal-areas or indirect clinids were observed.

It is interesting to note that the youngest case wis that of a young somma is years of age operated by Mr. Contenll in Mrr.h. 1000, who is still enjoying perfect bothlib nearly four vears later. The tumor in her case, resembled microscopically a serribous rate of cancer with more cubbra tissue than userly and his ring an invasion of the meanitery by concer-

The author believes with Lettille MacCarty and McGrith that cincer of the appendix is closely associated with chronic appendicities and obligate, tion because in contradistinction to cancer in other parts of the alimentary canal, the appendices are always occuloid and no trace of the lumin in the always occuloid and no trace of the lumin in the always occuloid and no trace of the lumin in the always occuloid and no trace of the lumin and traction was in an art of chronic influentiation and irritition as a kink concretion or phorosa.

Lastly Graham concludes that in a certain number of cases the irritation of isolated tubules or mucosa undergoing obliteration may excite cancer

growth

Griban in summarizing thinks that the cancers see dexiced from the glundhirt spithelium and that the vellow color is due to the fit in the cells. We that the timen in 64 pper cell of cases was at or most the tipo of the appendix. The sphenoidal celled cancer occurs in 75 pper cent in a series of 83 cases the vector season by the properties of the cells of the sphenoidal celled in the sphenoidal cells of
I LUENE CARY

Parks A Simple Method of Introducing the Purse-String Suture for Covering the Stump of the Appendix J Am II Iss 2013 Ix 20 By Surg Gync & Obst

The suture is begun at the mesenteric side of the appendix a bite being taken to include the vessels near the base and continued away from the mesen ters far enough from the base of the appendix to insure a pocket in the cacum sufficiently large to hold the stump Bites are taken in the wall of the cacum at points which may be illustrated by using the numerals on the face of a watch o clock as the mesenteric side and introduce the needle, pointing it away from the mesentery at 12 0 clock, 10 2 8 4 and 6 o clock The free ends of the su ture are drawn on and the stump of the appendix automatically disappears. The free ends are tied and the purse string is complete with a sufficient number of approximating points to insure good coaptation LEO DWAY

Duroux. The Pathological Torsions of the Large Intestine and Their Surgical Treatment (Les torsions patholograpes du gros intestin et leur traitement chiruspical) Rev d ginke e d chir abdominale, 1913, xiz, 319 By Journal de Chiruspical

The torsions which occur normally during the embryonic development of the large intestine are grouped about the area of distribution of two arteries the superior and the inferior mesenteries The same general division holds true in a consideration of the pathological torsions The author takes up in turn the torsions occurring in those parts of the large intestine which are supplied by the superior mesenteric artery (the excum and the ascending and transverse colon) and those torsions which affect the descending and sigmoid colon, whose vascular supply is derived from the inferior mesenteric. The commonest and best known form of colonic volvulus is that of the sigmoid, cæcal volvulus and volvulus of the transverse colon follow in the order named They occur in the proportion of eighteen cases of sugmoud to one of creeal volvulus. Volvulus of the transverse colon is commonly associated with either careal volvulus or volvulus of the sigmoid Its oc

Currence alone is a rarity
I Creat volverus (torsion of the cream and
of the lower portion of the ascending colon) Duroux

distinguishes three varieties
(1) Simple excal torsions (that is, exco ascending

colon)
(2) Complex excal torsions These include the excel torsions which involve also either the lower end of the lleum or the whole of the jejuno ileum, and those excal torsions in which a portion or the whole of the transverse colon is implicated

(3) Complete carcal torsions (jejuno ileo-carco transverse-colic) This is really a volvulus of the embryonic umbilical loop Gubé called it "jejuno

colic volvulus" 1 Simple caral torsions The mechanism in these cases may be pivoting of the crecum on a transverse axis, the base of the cæcum thus rising toward the epigastrium (carcum erectum of the Germans) It is in these cases that the various positions are found that Wilms and Klose have characterized under the head of "cæcum mobile In addition to the movement of pivoting the cacum may also undergo torsion about its vertical axis or about its mesenters. The first type of torsion is only produced in cases in which the excum is ad herent, while its base is free and in most cases very much dilated. The torsion may be clockwise or The torsion about the mesentery is anticlockwise found in cases in which the cacum has a secondary mesentery which has been formed by the stretching of those retrocacal perstoneal leaves which are usually adherent to the posterior wall If this were a primary mesentery its continuity with the meso colon would inevitably involve the ileum in the torsion, and we should be dealing with one of the cases which have been classed under complex for

2 Complex coral lorsions: In these cases the mechanism includes protein only secondarily, the rotatory movement is the dominant one. This is contriby rotation about the mesoracum, which is un interruptedly continuous with the meso ileum Rotation about the excel axis only possible when the addression of the coton has been incomplete, leaving the whole of the occurs and the lower portion of the ascending colon fire and mobile. The ileum rotation is from left to right vary movement, if the rotation is from left to right value for the coronic color segment, if from right to left, it passes posternely to the latter.

3. Complete coccil ferroust. These torsons can cocur only in cases where there has been an absence of the usual processes of fusion of the mesentery of the umbilical loop with the panetal pertoned. The upper limit of the intestine modeled in the process may be at the duodeno jegunal angle though the duodenoum isself may be involved if its mesentery is not adheered. The lower limit may be the standard portion of the trans-

In all these torsions there is a marked distention of the portions of the intestine comprised in the volvulus. This is shown by the presence of the cocum

in umbitical and inguinal hermas. When the exce cole-segment undergoes forsions about its own axis there is only slight interference with the mesenteric circulation and the intestinal wall may remain in viable condition for several days, but this is not the case where torsion has occurred about the mesentery. The twisting of this structure hings about a real vascular obstruction and the

phenomena of obstruction Etsoley and phenogeness. While rare in France (18 published cases) ereal volvulus apperus to be more frequent in certain other countries (Scanda navus and Russa). It comprises only 10 per cent of the cases of volvulus while sigmoid volvulus in cludes so per cent and volvulus of the telema apper ment to postument. It is pathogeness is dependent upon the presence of two factors mobility and distertion (influence of vegetable diet). This creat

signs of gangrene are more or less early added to the

perstoneal bands at the hepatic fleture of the colon Symptoms. Ushbough a cacal volvulus may occur suddenly without premonitory symptoms, more commonly prodoromal pains cole and gurghing occur in the excal region together with localized distention Radiography, shows that the bismuth meal remains in the distended excum for 12 or even 12 hours. There are frequently attacks of obstipation with

distention may also result from the retraction of

When the volvulus is completed it mainfests itself by the occurrence of very severe pain, which lasts about ten minutes and then abates, only to reoccur somewhat less severely. The symptoms of obstruction especially vomiting then appear. At

intermittent diarrhera

SIOD

the end of a few hours, a localized prominence of the abdominal wall is usually noted, either in the periumbilical region or in the left hypochondriac and umbilical region. Over this prominence peri staltic waves are seen The tumor has a tympanitic resonance, and during the periods of remission yields a distinct hydro aeric note. After a misleading period of remission, during which the local symptoms of complete obstruction persist the signs of perito nitis due to the perforation of the loop, become evi dent Death occurs at the end of a period varying from a to 8 days. The course may, however, be shorter (24 hours) or more prolonged (15 to 20 days) Diagnosis The diagnosis is difficult and is not usually made unless volvulus is proven. More commonly the condition is mistaken for appendi citis, twisted ovarian cyst or intussusception

Treatment This must be surgical If gangrene is not yet present the volvulus must be reduced, but in the presence of gangrene resection must be performed. The reduction of the volvulus calls for delicacy in manipulation, for the distention is such that tears may be produced by moderate If the resistance encountered in reducing the volvulus is too great the loop should be punc tured or incised or a rectal tube inserted as high as possible. After reduction typhlopexy has been recommended to prevent recurrence of the volvulus If the walls of the loop show changes which point toward difficulty in evacuation of the intestinal contents, a carcostomy or an appendicular fistula should be established Latero anastomosis is il logical if the volvulus is not reduced and is inferior to simple typhlostomy in any case. Where reduction of the volvulus is accomplished, 60 to 70 per cent of the cases recover In the cases of gangrene where resection is necessary, only 30 to 33 per cent recover

II TORSION OF THE TRANSVERSE COLON comprise (1) complex torsions that is those associ ated with volvulus of the cacum and small intestine or with sigmoid volvulus, (2) simple torsions, which are more rare, since Duroux has been able to find only ten cases reported (Gumard's case is the only one in the French literature)

The simple torsions may occur about the arc of the colon or about the axis of the mesentery Sometimes there is present a peritoneal band about which the colon wraps itself Excessive length or distention of the transverse colon predispose to torsion Pregnancy and the Trendelenburg position in laparotomy are mentioned as accessory factors The symptoms of volvulus of the transverse colon are analogous to those of other cases of volvulus The onset may be sudden or progressive Rather characteristic in certain cases are the attacks of pain and periumbilical colic with temporary obstruction and vomiting When the volvulus is complete enormous distention of the middle portion of the abdomen occurs, which, however, is not equally distributed on the two sides Peristaltic waves are sometimes seen. Occlusion by kinking

of the splenic flexure and stenosing cancer of the transverse colon must be considered in the differential diagnosis. The surgical treatment is by choice the reduction of the volvulus, if the presence of gangrene does not necessitate resection. It is well after reduction to perform fixation of the colon to the parietes in order to avoid recurrence verse colostomy or excostomy, is often advisable as a secondary operation, but it may be dispensed with when by means of the rectal tube, it is possible to rid the distended loop of its gaseous contents

III TORSION OF THE SIGNOID Complete volvillus of the pelvic colon is represented in those cases in which torsion of the loop occurs about the axis of the mesosigmoid The fixed point is the rectosigmoid portion, and the rectum is carried either anteriorly or posteriorly Certain changes in the mesentery favor the production of the volvulus especially the retraction due to mesosigmoiditis, which tends to approximate the points of pelvic attachment of the ends of the sigmoid Certain congenital abnormaltiles such as the lack of fusion of the iliac mesocolon and the congenital dilatation of the sigmoid. predispose to this accident

The strangulated loop may attain an enormous size and occupy the entire abdomen. The longitudinal muscular bands and the baustra disappear Perforation by gangrene, usually occurs rather late in spite of the apparent thinness of the walls and sometimes involves the higher portion of the colon From the symptomatic point of view it is worthy of note that sigmoid volvulus is commonly preceded by a long period of constinution with occasional attacks of incomplete occlusion due to the beginning of torsion The pain at the onset is localized in the left iliac fossa and in the pelvis. later it becomes more generalized. Comiting is inconstant and occurs late. On the other hand, obstruction is usually complete. The meteorism to most marked in the iliac fossa and in the left flank Ordinarily no peristaltic waves are to be seen in this region. If surgical interference is not under taken perforation and peritonitis occur. In certain cases death results from cardio pulmonary embarrassment caused by the enormous distention which pushes up the diaphragm

Treatment is entirely surgical Sigmoidostomy alone should not be performed because, while temporarily relieving the symptoms it does not affect the cause of the occlusion Detorsion and resection are the two rational procedures Detorsion is sometimes difficult to effect on account of the extreme distention of the loop. In these cases the loop should be aspirated or incised, or relief may be obtained by the introduction of a rectal tube After detorsion has been accomplished the loop may or may not tend to a recurrence of the volvulus Colopexy and coloplication, which have been performed to avoid this contingency, have not always been successful in their aim For this reason the tendency is to perform a resection of the sigmoid, either at once or as a secondary operation in accordance with the condition of the patient later results following resection appear to be superior to those simple detorsions. When gangrene is present resection is indubitably necessary, but in these cases, of course, the prognosis is less favor able Grovers I user

Watson: Surgical Tuberculosis of the Colon. Rectum, and Anal Canal, Practitioner 1011. By Surg Corner & Obst

According to Watson tuberculosis may be met with in the large intestine (1) as part of a general military infection. (2) as a general or localized altera tive colitis, when it is usually secondary to tubercu. losis elsewhere (a) as a joinfized hyperplasm in the

carum or at one of the flexures of the colon Hyperplastic tuberculosis of the colon is as a rule a primary manifestation. In 88 out of 100 cases collected by Lockhart Mummers the creum and ascending colon were the parts involved prominent characteristic of this condition is tumor formation resulting in a close resembling to malignant disease The tumor is movable associ ated with colic and it may be obstruction. Fixition is a late condition as it secondary suppuration When the specimen is examined the most constitu ous feature is the great thickening of all the coats of the bowel uniformly distributed round lumen which makes the bowel resemble a solid tube and to which the name gas pipe colon has been given Stenosis and struture either general or localized to one portion of the tumor ultimately Or curs

The symptoms of this condition are those of executions of the colon except that the presence of blood in the stools and progressive loss of flesh somewhat favors a diagnosis of cancer

The treatment consists in establishing a diagnosis by exploratory operation in the relief of obstruction by colostomy or short circuit and the extirpation of

the tumor whenever possible

Tuberculous ulceration of the colon is nearly always secondary to tuberculous elsewhere in the body Unlike tuberculous ulceration of the small intestine which is mainly a disease of childhood tuberculous ulceration of the large intestine is most commonly met with in adults secondary to advance pulmonary tuberculosis

The cocum and ascending colon are most com monly affected and although the ulcers tend to encircle the bowel they rarely produce stricture or

obstruction

The symptoms of tuberculous ulceration do not differ from those of other forms of ulcurative colitis The association of direction with blood and pus in the stools combined with phthisis should lead to a diagnosis which will usually be confirmed by a microscopic examination of the discharge

The treatment of this condition can only be palli ative and symptomatic, if active disease of the lungs coexist In the rare cases in which this condition is met with independent of pulmonity disease, treat-

ment by means of appendicostomy and irrigation should certainly be tried though without much hope of permanent benefit

Tuberculous ulceration of the rectum and and can'l commonly results from extension from the colon. The ulcers are often situated on the upper surface of Houston's valves, where they are easily missed with the sigmoidoscope, unless carefully looked for I istula in ano commonly results from

the invasion of the ischiorectal fossa by ulceration Freatment consists in appendicostomy combined with irrigation both from above and below. Some temporary improvement may result from ionization

with a solution of zinc sulphate

Tuberculosis of the anal skin consists of small gravish nodules close to the anal margin, which if not promptly exceed lead to ulcer formation

Tuberculous fistula in ano is characterized by extensive undermining of the skin, which is blue and boggs with little or no industrian of the surrounding parts. The internal opening between the sphincters is usually large ragged and plegrated and the external opening instead of preserving a button like granulation is patent and irregular

In cases of tuberculous fistula with no evidence of tulistik cleanhere early radical operation is most important to remove a possible source of general infection. Lither local or spinal anasthesia should be used and the patients not confined to bed after the tirst day nor should they be kept in the recum bust position but should have plenty of fresh air. sunshine and good food R II Mclent

Leomans Cecosiemoidostomy an Operation for Short Circuiting the Colon. Am J Surg By Surg Gynec & Obst 1913 XYLIS 23

Yeamans calls attention to the important work of stouchard Metchnikoff Combe and Lane in colonic Basis as a fruitful source of intestinal autotoxemia and states that there still remains a large group of patients who do not respond to hygienic dietetic medical or mechanical therapy. These have a real mechanical obstruction to the passage of the bowel contents - angulations flexures bands adhesions chronic volvulus (cæcal or sigmoidal) or stricture and require surgical treatment. Some short circuit ing operation will usually suffice. The objection to the decoremoidostomy of Lane is that it leaves the entire colon as a blind pouch for fermentation and autotogramia

learning proposes excongrandostomy by a broad lateral anastomosis with a double row of sutures and reports three cases with perfect results The first operation was performed two vears ago on a woman 48 years of age who had a grant sigmoid This case is illustrated by three radiographs. The second patient was a man aged 19 with obstruction of the transverse colon not reheard by a lateral deosigmoidostomy previously performed. The third crace a noman aged 23 suffered from inveterate constipution and autotoxemia the result of a true excum mobile of Wilms

Drainge of the colon at its most dependent points, nimely, excum and signoid is the corresurgical principle. Anatomically this is impossible in some cases but radiographs of the colon and sigmoido-ropy will usually enable the surgeon to determine the practiculative of this procedure in advance of operation. The writer concludes that when leasable, crossismoidosomy is a safe and east operation. It drains the entire colon at its most dependent joints without leving any blind pruches, anchors and drains the most ble, excum and the goant system control one-timeton due to mechanical obstruction tobstypation; at any point in the colon from excum to arts of sigmoid

Helter The Present Status of the Combined, I e. Abdomino-Dorsal, Estirp ution of the Carcinomatus Rectum (ther ge,ensaring Stand der kombinerten i e abd immodoration I settingation des carcinomations Mastdirms). Irgbn d Chir w Orthop 1913 v 458

By Zentralbl f d ges (hir u i Grenzgeli

In spite of the consensus of opinion at the German Surgical Congress in 1906 ig iinst the Kraske combined rectum extirpation, the number of operations by that method according to Heller have increased I rom the compiled statistics of the years 1010 1912 Heller reports a mortishty of 29 per cent of which to per cent were men and is per cent women best results were obtained by W. Mayo with 18 per cent Goepel with 15 per cent and Rottmar with only 6 per cent mortality. The ideal combined method consists in a primary abdominal dissection of the tumor and a secondary extirpation from below through the coccyx route with implantation of the oral end of the intestine into the sphineter after the method of Hochinegg The principal modification of the operation is the formation of an artificial anus after abdominal dissection of the tumor and amoutation of the peripheral end of the rectum (Quénu, Hartmann) Heller regards the combined externa tion of the rectum not as a measure of necessity but as one of choice. It is indicated in carcinoms with its upper borders in the pars pelvina recti that is above the muscular diaphragm because of its direct relation to the lymphatic gland of the upper hamorrhoidal vessels. He advises it also in spread ing tumors especially with adhesions to the organs of the urogenital tract. The method is contraindicated in generalized carcinomatosis old age. very sick patients artemosclerous and adiposity The advantage of the combined method and espe cially the sacral method is the possibility according to the author of performing a radical operation because of the accessibility of the lymphatic glands the good exposure of the field of operation of the tumor and the discovery of abdominal metastases and the possibility of mobilizing the colon while conserving the relationship of the vessels and drawing it down to the sphincter Finally asepsis can be retained to the end of the operation. Heller

described in detail the method of conserving the vessels to avoid gangrene of the oral end of the intestine following rectum resection Section of the superior hymorrhoidal artery advised by Rehn. permits the intestine to be pulled down without tension. The ligature is to be placed above the origin of the arteria sigmoidca (Sudeck's critical point) in order to retain the colliteral circulation The anatomical landmark is the level of the fifth jumbar vertebry above the promontorium (Rubesch) In arteriosclerosis or when the mesosigmy is short, ligature of the superior hemorrhoidal artery immediately below the origin of the left colic artery does not always according to Sudick prevent gangrene In such cases it is advisable not to draw down the intestine to the sphineter, but to make an abdominal anus GERFLE

Crile Biological Interpretation and Surgical Aspects in Painful Indigestion Lancet Clinic, 1913 cts 94 By Surg Gynec & Obst

In certain abdominal lesions pain is a leading phenomenon. The author postulates that pain is one of the phenomens of a stimulation to motor action which in turn is to protect the organism against injury and aid in rubling it of injurious substances.

Hath regard to association of pain with infections, it is found in general that wherever local infection would be spread by muscular action or where fixa tion of the parts by continued muscular rigidity would be an advantage there is pain. Wherever the resistance to infection is by chemical processes or whetever it is in such locations that muscular contractions can in no way assist in localizing the discase pain is absent. The perstoneum is in itself wanderfully equipped to exercome infection and especially if that infection be localized point of peritoneum may be fixed by holding the muscular abdominal wall still and rigid and by holding the muscular intestinal wall still and rigid against a large volume of gas and by quickly throwing out exudation. In the extremes of life, e the infant and the aged few symptoms of the disease may be shown the reason being that they have little or no pun and slight if any tenderness or muscular rigidity The principle involved is the same as that underlying the freedom from pain under narcotics or an esthetics

The author discusses in detail the diagnosis and differentiation of the main types of prinful chronic indigestion interpreting many symptoms especially the painful ones upon the basis of biological adaptation. Of these there are two great types—infection and obstitution

I ollowing a conference with his colleagues of the staff of Lakeside Hospital in reference to all of the sections of the abdomen performed by them, the following conclusions were drawn

Certain lesions of the abdominal hollow viscera cause pain and indigestion, whereas lesions of the solid viscera usually cause no primary pain, lesions FIOND RULEY

of the hollow visceta causing no pain are rately benefited by operation, most cases of painful indication, if not duodend or gastra uters, gastre, the cause of the pint site attenuture cause culvr action, pain is a damaging agency to health, acute ablomination pain is a usually surpical, these phenomena obey a general biologic law of adapta too, the adiquate stimuli of many of them act through the brine, when the brain is documented these phenomena disappara, and thus may the mortality and the morbibility be placed measurably further under the surreons control

Abdominal pain therefore, is associated with in fection and obstruction each a strong stimulus to adaptive visceral activity. Thus a biologic interpretation may be put on the phenomena of infection.

and obstruction

LIVER, PANCREAS, AND SPLEEN

Fiperin A Case of Congenital Defect of the Cystic Duct Due to a Mechanical Cause (I in 1 all von argeboremen Defect des Justicys blodes is hus aus mechanischer Ursaihe) Frankf Zischer J. Pathul 1013 II 15

Illy Zentralld I d ges Chir u 1 Grenzgeb

I herm adds to the 05 cases of the above anoma lies found in the literature the case of a female child which theil to days after birth. The very complete autopsy records show that the liver was greatly The left lobe was especially misshapen externally large. The gall bladder was represented by a rudi ment tem long in which I is a colorless cheesy mass There were no dilated gall passages in the liver In the duodenum there was a papilla into which the princreatic duct onened. On sectioning the region of the papilla serially a system of canals was found which was clothed with high cylindrical apithelium and evidently represented the developmental center of the absent cystic duct. The branches of the canal ended blindly in the submucosa in connective tissue which was not inflammatory The author thinks that the anomaly of form of the liver must be considered in the genesis of the milliormition in which the liver is forced upward and the tender cystic duct is markedly compressed. Bencke thinks the milliormation can also be produced by constrution of the epithelium of the gall passages from the epithelium of the intestine at this point. Lues was excluded as the enology of the anomaly because the Wassermann reaction was negative Other in flammatory processes as a cause could not be demon-The newer investigations in embryology point against a theory of vitium comparations primæ since a lack of development of the gall passages would have to go hand in hand with that of the liver That a defect of the cystic duct his been observed in several children of the same parents, I lperin does not regard as due to congenital lues but rather to abnormal conditions in the uterus NORDMANN of the mother

Dugan: Surgery of the Gall-Bladder and Ducts

J. Lancet, 1013 xxxiii, 36 By Surg. Gyper & Ohit

The diagnosis of typical gallstones colic, or obstruction of the common duct is easy, but latent stones and stones pocketed in the cystic duct not entirely closing the same is another story

Complete obstruction of the exist or common duce brings on urgent symptoms immediately, but latent stones or stones pocketed in the cystic duct may cause only sign on sugar unconsecs or simular various stomach affections. There is one particular place in the cystic duct vers pront to hirbor pocketed stones i e the first one fourth inch of the duct vers pront to hirbor and the cystic duct vers pront to hirbor pocketed stones i e the first one fourth inch of the duct.

Nother class that formshes a fruitfal field for mistaker is that wherin very small stones are contained to the palvis of the gall bladder in the presence of large quintities of bid especially if na presence of large quintities of bid especially if na trouble to mask the vimptoms. The surformer is trouble to mask the vimptoms. The surformer is trouble to make the presentation of the surformer of routin. If a failed to find any stones, and was about to close the alt-lomen when his assistant is about to close the alt-lomen when his assistant is more than the surformer production of the surformer production.

Statistics show 30/45 years as the average age of beginning trouble but late literature and the author's own experience lead him to place it much earlier

Mihough the danger to life is not as imminent in gall blidder disease as in appendictive the very serious sequely of neglected cases should cause us to give our patients a more careful prognosis than has been done in the past.

The cases of infection and imprecied stones in the common duck with cholema give a higher mortality by reason of the fact that the cholema greatly reduces the resisting power and the upper abdamen does not hear infection nearly as well as the lower hilf

In view of these very serious conditions in delayed cases, the author concludes that in the past sufficient emphasis has not been given to the danger of delay.

Nesselrode Etiology and Pathology of Infections of the Billary Truct Med Heald 1913 xxxx 12 By Surg Gynec & Obst

In presenting this paper the author has reviewed much of the experimental work of the various of servers of this question. He emphasizes the fact that this publiological condition ones its origin to infection, and urges that in the logical treatment of this condition the treatment of the element of infection is the all essential indication.

Miter reviewing the evidence in favor of the various suggested routes by which the bacteria may reach the gill blidder he offers the following conclusions in fivor of the portal vein being the chief route of entry. (1) Maim and I ord have proven that there is at all times a passage of breteria through

the healthy intestinal wall (2) It has been proven by Dorr that bacteria introduced through the blood may be demonstrated within a few hours, not only in the urine but also in the bile (3) The organisms which most commonly infect the gall bladder are but rarely found in the duodenum (4) An infection of the biliary tract above a ligated duct could not come by the ascending route (5) Cases of enteritis have been produced experimentally by the feeding of arsenic, etc., then some easily recognized organism, as the bacillus prodigiosis, introduced into the bowel, and within a few hours this organism has been recovered by culture from the bile contained in the gall bladder. If the organism is still virulent after having successfully passed the mucosa of the intestine and the liver it will give rise to an acute cholangitis or cholecystitis, and the history and symptoms will be those of any acute infection with the localizing symptoms in the upper right abdomen

There is one point worthy of mentioning here, and that is that an acute infection in the gall bladder does not give rise to severe symptoms as an infection of the same virulence elsewhere. This is explained by the absence of lymphatics, and also by the very

great clasticity of the gall bladder

The intelligent treatment of cholelithiasis presupposes a clear conception of the pathology of the disease, the means of treatment at our command. and the objects attainable by their use. To attempt to dissolve by internal medication a gallstone that is insoluble, or to cause the passage through the biliary ducts of a gallstone when the ducts are impresable to a stone of its size to attempt to cure supposed gastric symptoms by measures directed to the stomach when the symptoms are caused by adhesions about the gall bladder,- this is as futile as it is irrational

Fink Symptomatology and Diagnosis of Gallstones, Indications for Surgical Treatment (Symptomatologie und Diagnostik des Gallensteinlei dens, Indikationen zur chirurgischen Behandlung) Prag med II chnschr 1913 xxxviii 1

By Zentralbl I d ges Chir ii 1 Grenzeeb

The author bases his statements on his experience in 40 cases operated during the year 1912 He divides the cases according to the pathologic anatomic find ings because he thinks the procedure at operation is only a subjective expression of the indication and is not the cause for the division. The clinical symptoms can be divided into two groups those arising from a disease of the bladder and those from the liver and common duct. In the first group the author puts 22 cases and in the second 18 The author sindi cation for operation in the first group is occlusion of the cystic duct by a stone infection of the cillbladder with its sequelæ spreading of the inflamma tion from the bladder to the surrounding tissues. and gallstone colic which through its persistence and intensity produces a loss of weight and wellbeing of the patient He points out three routes of predilection for the spread of gall bladder inflamma

tion to the surrounding structures (1) from the neck of the bladder toward the liver. (2) from the neck of the bladder toward the ligamentum hepatodendenala, and (3) from the base of the bladder to the free abdominal cavity. He illustrates these groups by characteristic symptoms from his cases He divides the symptom-complex of the cholelithiasis into six groups (1) Cases of stone in the bladder, with frequently recurring attacks of great intensity but without precise objective findings, (2) empyema with symptoms of local inflammation, (3) empyema with perforation toward the liver, severe pains, sensitiveness and enlargement of the liver, (4) cholecystitis with spread of the inflammation to the neck of the bladder and the common duct, with repeated symptoms in the latter and in the pancreas, (s) cholecystitis with perforation of the gall bladder into the free abdominal cavity, (6) cholecystitis, with spread of the inflammation to the abdominal organs constinution and tympanitis, etc. differentiation of acterus due to spread of the inflammation along the ligamentum henatoduodenala and that due to an occlusion of the common duct by a stone is frequently impossible. The history, repeated attacks of icterus, and the duration of the disease may give some clew. In occlusion of the common duct by a stone the author performs an ectomy with resection of the bladder and choledochotomy with drainage. The author regards gallstones with patent cystic duct and gall bladder without infection as suited for medical treatment. re a cure at Carlsbad since such cases can become quiescent and even be cured. The mortality in operative cases is 7 5 per cent

Holmeister The Methodic Dilatation of the Papilla Duodeni and the Choledochoduodenal Drainage (Die methodische Dilatation der Papilla duodeni und die Choledochoduodenaldrain-age) Zentralbl f Chir 1913 xl 5 By Zentralbl f d ges Chir u i Grenzgeb

The author has thought out a new device, which he uses in choledochotomy with soft stones, when he is not certain that all fragments have been removed even by careful washing and scraping (c) The author is not satisfied with a single sounding of the pap duodent but dilates it systematically with urethral bougies (Charr 22-24) (2) The choicdochus is drained with a tube completely filling its lumen and leading all the bile to the exterior Through this thick tube even several days after the operation one can introduce a fine \Claton for irriga tion (3) Through the dilated pap duodeni a tube 6-8 mm thick is pushed into the duodenum a dis tance of 4 cm and fastened in the choledochus incision by means of a long thread. Over this duodenal drain another wide tube is pushed up to the choledochus and at the same time the long chole dochus sutures are led through this to the exterior Next to the tube is inserted an indoform gauze bug By this procedure the dilatation of the papilla prosided by the operation is preserved. Medicaments and nutritive material may be introduced without disturbing the stomach, and the bile flowing from the other tube into an outside receptacle may be reintroduced into the diodenum at the time of the meals. I mailly the fistuli acts as a prophylactic enterostomy to relieve the intestine in the first days following the outside the first days.

Deaver. Pancreatic Lymphangitis and Chronic Pancreatitis J Am M 111, 1913 lx 1 By Surg., Gynec & Obst

The most important subject occupying the attention of abdominal surgeons to day has to do with the elucidation of the prihogenesis, the recognition of the symptoms and the discussery of adequate means of treatment of discusses of the pancres.

It was observed that the princesa was apt to be modered in deeves of the gill bladfer or common duct. In op cases of cholchibrism, which the author operated during joint, the princesa was found bard and nodulir in go instances, in o moder early enlarged, in a summilly soft, and in one the necessary of the property of

Pancertitis is more prevalent in make while gull bilded release is more common in finales. This like of parallelian arouses suspetion that pancretists must be due to other factors than the simple infection by continuity along the bile due to the pancerate dual. There are three other possible accuses by which infection may reach the pancera-(i) through the general circulation (2) by there contiguity from adjurent structures and (4) by way of the hymidatics

The rarity of principals involvement in systems and pyamic processes, which are tellisticly so frequent, speaks against this as a common mode of infection. Again conditions in which the principal is found involved are not christerized by bacteremia, though it may occurronally occur.

2 Infection by direct contiguity occurs most often in slowly performing uleers of the stomach and diodenum

3 The imphatics in Deaver sopionin play a conspicuous role in conveying infection to the practices. The practices by reason of its retro pertioned situation bears a close relation to the thorace duct and to many trunks which empty into

it from the visceral lymphatus
II must be concreded that in many inflammatory
conditions of the abdomen there is a retropertioned
lymphangists which is frught with possibilities of
injury to the puncreas lying almost directly in its
path. Lymphatics emerge at various points along
the surface of the puncreas and run to the regions,
leads, to neighbor the construction associated
hands, to neighbor the constructions associated
the construction of the puncreas and the puncreas
often not diffusely affected, but only a portion
shows enlargement induration or modulation. In
all highder disease the head of the puncreas partic

pates while the tail may entirely escape. If the infection were duct borne it would be difficult to understand why the gland should not be diffusely affected, if, however, the infection be carried by the hymbatics it should be localized to the segment of the organ supplied by the hymbatics in communication with those current of the infection.

The author feels certain that lymphatic infection of the pancreas is a fact and that this pancreatic lymphangitis is a forerunner of serious afterations

in the parenth-ma and strom of the organ. Chronic panicatitis when it has progressed to the stage of interlobular and interactinar fibrous diposit, is no more curable than chronic neighbits diposit, is no more curable than chronic neighbits phangitis may lead to such a stage is clear, but in this inspirency it may be relieved, like ly imphangitis clear, but in this inspirency it may be relieved, like ly imphangitis clear, but in the superior construction. Variate it may be studied that the symptomic form Variate in may be studied that the symptomic plannicality for see in its crift stages are secondary in importance to these of the decase on which it

The author expresses his helic that carcinoma of the princers is an many instances brought into existence by pressous princertitis. His reason for two belief is the observation that not a few cases of exacer of the princers present a long history of antecedent upper abdominal indigestion suggesting paners attending the development of eartinoms.

The treatment of principatic lymphangitis consists in the various measures which are efficacions in removing the primary source of infection. Clinical experience shows that the majority of cases of early pancreatic inflammation are closely related to discuse of the biliary truct, and are most favorably influenced by measures that tend to restore the biliary passiges to a state of health ciple of the treatment of biliary disease is drainage Many cases of mild panereatitis are completely and permanently relieved by simple cholecystostomy with drainage continued for from four to eight weeks This is the procedure which Deaver uses and en dorses in all cases in which the panereas appears to be slightly involved and the possibility of restoring the gall I ladder to a state of health appears good

While he does not tayor as a general rule: the run val of the gill bladder it is one preserved yet in cases complicated the pain-reatities he believes that a thickend fountunities gill bladder should be removed to its presence movies stagnation of the runesal of infection and a reappy-trainer of the runesal of infection and a reappy-trainer of should be drained whenever the disease, as we extension to the runesal set warrant terms of 10 rth gall bladder.

Chokeysto duudenostomy is reserved for cases in which obstruction of the common duct by the thickened head of the punceas is almost if not quite complete. Simple drunge of the gall bladder or common duct often works wonders and should be performed in view of the lower mortal by as compared with a grill bladder annastomosis.

Noland and Watson: Spontaneous Rupture of the Malarial Spleen. Report of Three Cases Ann Surg, Phila, 1913 ha, 73 By Surg, Gynec & Obst

This is an exceedingly rare condition. From the records of about 30,000 malarial cases admitted to the Colon Hospital, the authors collected only three cases of spontaneous rupture of the spleen. Attention is called to the apparently unquestionable his tory of absence of traumatism in these cases.

The first case was operated upon ten days after admission. The abdominal cavity contained about 500 cc of dark fluid blood. The spleen was en larged to twice its normal size, and a shallow rupture about 1½ inches in length was found on the dia phragmatic side. Bleeding was stopped by light cause tamon. This case recovered.

In the second case 1500 cc and in the third case about 1000 cc of blood and clots were found. The rupture in both cases was found on the convex surface of the spleen. The second case recovered and

the third died from acute suppression

The authors go into the symptomatology and diagnosis, and call attention to the fact that the treatment is strictly surgical. They conclude that spontaneous rupture is rare, great spleane enlargement is not essential for rupture forcible percussion and puncture of the splean should be avoided the treatment is early operation. If W Kosmayers

MISCELLANEOUS

Hausmann Visceral Syphilis (Die luctische Lekrank ungen der Bauchorgane) Sammi Zuangl Abhandl a d Geb d Verd u Stoffe Krankh 1913 iv. 5 By Zentralbl i d ges Gynak u Geburtsh s d Grenzgeb

After a short historical introduction, Hausmann discusses visceral lave in general 'tisceral syphilis can develop, even with severe cachena, during the first year after infection. Any abdominal organ may become decased frequently two or more being affected. Diffuse infiltration causing a fibrough pyerplass is more frequent than gummata. The

venous walls become affected by the granulations (not found in congenital syphilis)

Secondary or tertuary lessons may be found in the essophagus and cardia of the stomach, often resulting in a stricture. In the stomach proper gummata and ulcers are the more common lessons present, the latter being differentiated from peptic ulcer by its overhaging border. Diffuse fibrous byperplasus of the stomatch sual, resembling a surrhous thickening, is also seen. Hypocodity is typical for a lutter learn in the stomach. Symptoms of stenois and blood in the faces may be absent in gummatous inflitzations of the pylorus. Paun and vomiting may be absent. The characteristic uleer symptoms are nocturnal pain in the stomach with anacidity Hausmann thinks syphilis of the stomach is more common than does Chiri.

common than does Chart
Intestinal lises occurs in two types, patches of
gummatous inditration with the long axis transverse occurring mostly in the jeginum and ileum,
resulting in stenosis or perforation and fibrous
hyperplasia. In 14 per cent of the cases papules
appear in the rectum during the secondary stage.
They have no connection with anal propules. Gum
mais of the rectum lead to secondary stenosis and
statial formation. Finishry hyperplastic syphilis
is also seen hire. Stenosis due to gonorrhera appears
as a sharp runmed, intensity red scar while the
leads of the stage of the stage of the stage of the
Thur air syphilis of the rectum has occurred only

While tertiary lesions are more often seen in the liver secondary lesions are possible. Two types of tertiary lesions are common the diffuse infiltration leading to the typical lobulated liver and

gummata

Diffuse princratitis is more frequent than gumma in 23 per cent of congenial thus the pancreas was found to be affected. The islands of Langerham are not indurated and the function of the gland need not be disturbed, although fat has been observed in the faxes as well as sugar in the turne. Pann is often present and an indurated pancreas can some spleen in the soundary stage. Pup explosis of the spleening the soundary stage when the spleening the soundary stage when the spleening the soundary stage and the spleening the soundary stage. Pun may be present in the region of the enlared solven.

Retroperstonceal and mesenteric gumma are more frequent than is supposed, the mesenteric gumma being connected with the small intestine and there for freedy movable. They may cause strongs when the strong strong s

SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS, ETC.

Wieland. Rickets and Its Treatment (Ueber Rachi us und ihre Behandlung) Schweiz Rundschau f Wed, 1913 zur, 313 By Zentralbi f d ges Chir u i Grenzgeb

Wieland finds the cause of the specific changes of the bones in tickets to be a defect of calcareous depost and questions the existence of the habsteresis claimed by Reckinghawen Myopathica rachitica also is a specific affection and histologically represents a dimmution of the cabber of the muscle fibers and a multiplication of the nuclei, associated with very distinct longitudinal stration, it therefore does not represent atrophy due to inactivity According to Marfan, hyperplasas of the medulla is also specific As of chief etiological importance. Wieland names predisposition in the sense of an hereditary or early acquired general weakness of the individual, and as next in importance, devitalization from deficient aeration, the result of living in crowded quarters Thereby he differs from Marfan. who looks upon the disease as an affection of the entire bæmatopoietic apparatus Congenital rickets is denied by Wieland The greatest frequency of this prevalent disease falls at the end of the first year of life It is always most easily recognized at those points where growth happens for the time being to be most active on the skull during the first year of life, later on the thorax, the spinal column, and the epiphyses of the long bones Rachitis tarda he considers an exacerbation of infantile rickets which has become and remained latent therapeutic respects he presents nothing new, however, he points out that operations for distortions should be avoided until one is absolutely assured that recovery is complete

ERNST SCHULTZE

Tennant: The Use of the Blow Torch and Large Autodermic Grafts in the Treatment of Acute and Subacute Osteomyelitis. Denver M Times, 1912, xxxii 322

By Surg Gynec & Obst Since bone structure will not readily close in about infected areas and cavities, it becomes neces sary to substitute some media which will temporarily fill the cavity and act as the framework or scaffolding

for the later structural osseous infiltration While the Mosetig-Moorhof bone wax medium has been found to be most satisfactory for this purpose, yet it seldom if ever remains in position in the presence of acute or subacute ostcomy elitis

The author has undertaken to overcome these unfavorable features by the adoption of the follow-

ing procedure An alcohol or "Prestolite" blow torch delivering a needle point flame is directed deep into the septic bone cavity, completely sterilizing everything with which it comes in contact The infected margins of the soft tissue as well as the cavity are treated in like manner, and after the wax has been packed into the cavity, an autodermic graft is placed, and over all a rubberized open mesh dressing is laid and bandaged into place. This last procedure makes it possible for drainage and easy access to the wound for the dressings, without distorting the margins of the graft

The wax is put up in sterde collapsible metal tubes, which are dropped into a water bath of 100°

F. just before using.

De Nancrede A Case of Metastasis in the Femur of Normal Feetal Thyroid Tissue Phys & By Surg , Gynec & Obst Surg , 1913, XXXV, 19

Cases of this kind are usually diagnosed as malignant tumors, either a primary sarcoma or a secondary carcinoma Often a histological examination of tissue removed at an operation is not made, and so there are probably many cases of non malignant bony growths which are never correctly diagnosed. even after they are removed by operation. The Germans have come to view with suspicion all bony growths which occur in regions where goiter is common Often a rigid examination of the thyroid

will reveal a nodular condition The case in hand came to the hospital because of a fracture which had occurred six months previously and which had never healed. The fracture was located above the knee The trouble began four months previous to the fracture with pain in the left heel followed by swelling The pain and swelling passed gradually up the limb to a point slightly above the knee, where a nodular mass formed the size of a biscuit. The fracture resulted from a slight twisting of the leg as the patient fell The injury was accompanied by severe pain in the

The limb was flail like and was amputated histologic examination of the tumor resulted in a diagnosis of metastasis of fætal thyroid tissue in

bone, only locally malignant Cases of this kind, which cannot be cured by any retentive apparatus applied to the bone, necessitate only a very low amoutation, and not the high amou tation which is necessary when the more malignant types of bone tumors are present

TAMES II SEILES

Schwartz. Glant Cell Sarcoma at the Lower End of the Femur, Resection of the Knee; Good Results at the End of Eighteen Years; No Recurrence, Pseudarthrosis; Good Use of the Leg While Walking (Sarcome a myéloplaves de l'extrémité inférieure du femur, résection du génou, resultat au bout de 18 ans, absence de récidive, pseudarthrose, march très-facile) d orthop , 1913, 1v, 71 By Journal de Chirurgie

The above title is the history of a very interesting case in a few words. Two points of interest should

be noticed in the writings of Schwartz (1) The fact that there has been no recurrence of the tumor in eighteen years proves to us that we can cure these giant cell sarcomas by simple resection. (2) That the patient has good use of the limb

while walking, that he is able to use the leg freely and stand upon it for hours with no difficulty (he stands by the hour at his trade) and that he has free mobility at the knee, which is actually of better service than before ATREST MORCHET

Batzner. The Trypsin Treatment of Surgical Tuberculosis. Practitioner, 1913, 20, 203 By Surg , Gynec & Obst

Acting on the belief that the treatment of surgical tuberculosis with proteolytic ferments would aid in the resolution of the lesions, the author has carried on investigations to determine the value of such treatment chinically. His method consists in the injection subcutaneously of a sterile 60 per cent solution of trypsin in glycerin. The dose varies from 1 to 2 cc, diluted with one to ten parts of physiological salt solution. Injections are made at intervals of 2 to 7 days, preferably into and about the site of the lesson. He states that trypsin diffuses very slowly through the tissues into which it is injected, and that the action on normal tissue is practically in 1.

Injections into tuberculous tissue are followed by shigh smarting pain, occasionally a rise in temperature, and local signs of inflammatory reactions accur bearing all the characteristics of cartie inflammatory phigmon, intense smarting, and, a few hours after injection, rispor and high temperature. These symptoms disappear in from 24 to 48 hours while the swelling may continue from 4 to 6 days. In case of large local abscress after one or several injections the pius is said to become serous and frequently blood staneed, accompanied by shrinking of the walls of the abscess, followed by creatization.

Interesting the author has determined the addition to the lymphocytes and detertine of the tuberculous pus, of polynician leucocytes, competitive tuberculous pus, of polynician leucocytes, competitive tuberculous pus, of polynician leucocytes, competitive tuberculous pus, of polynician leucocytes, leucocy

From an abundance of material he cites four specific cases of advanced tuberculosis of the ankle several with ulceration and sinuses leading to bare bone, cured in 1 year and 9 months, 14 months, 2 years, and I year and 8 months respectively The X ray of one of these he describes as showing 'ex tensive destruction of the calcaneus and astragalus and of epiphyses of the tibia and fibula" He de scribes the X ray taken after treatment as showing "complete restitution of bone" The number of injections in these cases were 50, 17 31 and 40 He also reports the disappearance of a tuberculous abscess the size of a child's head after two aspirations and 11 trypsin injections Suppurating sinuses, and especially superficial tuberculous ulcers, he believes are very amenable to treatment Among the general effects of the treatment he notes improvement in general physical and mental condition and unusual improvement in appetite advises the treatment in all surgical tuberculosis. especially those with abscesses or sinuses. While not presenting the method as a finished therapeutic procedure, he believes that in view of his excellent results the method deserves further investigation

F I GAENSLEY

Butzengelger: Experiences with Mesbé in the Treatment of Surgical Tuberculosis (Erfahrungen mit Mesbé in der Behandlung chururgischer Tuberkulosen) Munchen med Wchnicht, 1913, lt, 128 By Zentzübl i diges Chri u i Grengeb

As a result of the publication of Heermann and Spangenberg, 7 cases of chronic fistulous bone tuberculosis were treated with mesbé. Mesbé was applied locally either pure or as a 50 per cent salve In all cases more or less extensive surgical procedures had been used and had left fistulæ Two cases healed after to weeks' treatment with meshe and remain closed at the present tune, 2 months later One case showed after the application, a marked local reaction and rise of temperature to 30° most other cases severe pain and increased secretion This is regarded as the specific action were noted of this remedy on the tuberculous processes and hence it is thought it contains specific anti-tuber culous bodies

Challer and Nautin Primary Benign Tuberculous Pyarthrosis without Bone Lesions (Sur une forme bénigne de pyarthrose tuberculeuse primitive sans lésions osseuses) Re à orthog, 1913, 19 41 By Journal de Christigne

Under this name Challer and Naurin describe the "articular cold abscess ' and cite three cases in which such a true complete pyarthrosis was demonstrated not only by clinical examinations but by arthrotomy or aspiration. The tuberculous nature of the lesions was confirmed by the laboratory find is to the articular lesions, the one case which was operated showed that the synovial mem branes were alone involved whilst the articular cartilages and the bony epiphysis showed not the slightest alteration The clinical characteristics of this variety of tuberculous pyarthrosis are, first, the almost absolute integrity of the articular functions. and secondly, the minimum constitutional effect This affection may hence be considered relatively Fixation with or without accompanying injection of modifying solutions into the joint is the treatment of choice unless such acute symptoms should supervene as those which in this case led Jabaloy to perform an arthrotomy

ALBERT MOUCHET

Berry The Classification of Arthritis. Surg Gynec & Obst 1912, xv1 54 By Surg, Gynec & Obst

The classification of injuries and diseases of the joints has always been more or less confusing and the confusion has occurred mainly in the classification of the chronic diseases

Thus Goldthwait classifies the chronic diseases of the joints into infectious atrophic, and hypertrophic arthritis. Under the head of hypertrophic arthritis he groups such diseases as Heberden's nodes malum coxx senilis and spondylitis deformans.

Jones makes only two classes, rheumatoid ar-

thritis (corresponding to Goldthwait's atrophic arthritis) and osteo arthritis (corresponding to Goldthwait's hypertrophic arthritis)

Nathan has a classification in which senile osteo arthritis corresponds to Goldthwair's hypertrophie arthritis or Jones' osteo arthritis, and metabolic osteo arthritis corresponds to Goldthwair's atrophie arthritis or Jones' rheumatond arthritis if groups both diseases, however, under the head of trophic osteo arthritis.

According to the author, the classification of joint discases which seems to offir the least opportunity for confusion is a classification based upon known euological and anatomical factors, and is as follows it rainmits: (a) Traumatic enthritis. (b) trau

matic osteo arthritis
2 Infectious (a) infectious arthritis, (b) in

fectious osteo arthritis
3 Trophic (a) Trophic arthritis, (b) trophic

oscie arthritis
In the above clissification the diseases known as
Heberden's nodes malum coax senilis spondy hitse
deformans, orion arthritis (Jones) etc. are clissi
fied under the fixed of traumate by the A ray
everywhere the control of the control of the control
everywhere the fixed of traumate by the A ray
everysponds to that of an osteo arthritis caused by
known trauma. In like mynner the disease known
as rheumstod arthritis (Jones) is classified as a
trophic osteo arthritis, because the X-YI findings
everywhere the control of the control of the control
everywhere the control of the control
thritis can be placed in the present classification according to their etology and the antionical chages

Axhausen Nature of Arthritis Deformans (Ueber des Wesen der arthritis deformans) Allg med Zeniral. 1911 krxul 47 By Zentralbi f d ges Chir u i Grenzgeb

According to the histological and experimental studies of the author arthritis deformans always caused necrosis of the cartilage. He found that both necrotic bone and cartilage displayed an active reaction on the surrounding healthy tissue cartilaginous tissue soon commenced to undergo active proliferation and to replace the necrotic tissue which was killed by electric current in his experi ments The most characteristic change took place in the bone marrow near the epiphysis such experimental conditions the necrotic cartilage frequently took on the typical pathological picture of arthritis deformans According to Axhausen, the necrotic changes in the cartilage are typical physiological changes seen in old age. The symp tom complex is activated by it and is closely related to the amount of deformity and change it produces E O P SCHLLTZE

Dardel Gonorrhoal Rheumatism in Arthritic Subjects Med Rec, 1913 Ixxiii, 150 By Surg, Gynec & Obst

Dardel reviews briefly the history and course of gonorrheal rheumatism, and discusses at some length the treatment. In acute cases attended by much minimum ton, he quotes Chevrer as obtaining favorable results suth injections into the joint of the top ome corparate of radium sails. In chronic cases with joint deformine. Diridel advises injection of thousamm or throly sin, z c of the latter are used daily for a fortingfit together with massage and manipulation of the yout. He asserts that this treatment is capable of yielding good results.

Pürckhauer Injuries of the Higamenta Cruciata of the knee Joint (Ueber Verletzungen der Ligamenta cruciata des kniegelenks) München med Hehnschr 1613 H. 73.

By Centralbi f d ges Chir u i Grenzgeh Purckhauer reports a significant cases, two of which he was able to observe for a long time mechanism of this injury has been studied chiefly in the Rontgen era and is fourfold (1) Hyper extension, (2) hyperflexion when at the same time there is a powerful force acting on the knee, (3) hyperextension and simultaneously high grade out ward abduction (4) inward and outward rotation by by great violence usually with associated severe injury to the lateral ligiments and capsule. The characteristic late symptom is the possibility to luxate both actively and passively from before backward without any lateral movements and with slight impairment of function. In fresh cases su turing the torn beaments is recommended. In late cases when the functional disturbance is not

present the possibility of subjuxation Vorperbetore

Breus Ftiology and Genesis of Otto's Protrusion of the Acetabulum (Zur Actiologie und Genese der Ottoschen Protrusion des Pfannenbodens) Buen klim Buchmicht 1013 xxvi 167

too great the knee is best immobilized in order to

By Zenrable f dges Gynal, u Gebuttsh s d Grenzgeb
In this condition a local destructive inflammation
of the bony floor of the acetabulum takes place,
whereby only a thin layer of inflamed pernosteum

of the bosy floor of the acetabulum takes place, whereby only a thin layer of inflamed percolarum persists between the pelvic cavity and the joint The head of the femur pushes on the percosteum, and after the inflammation has subsided a new bony acetabulum decelops. The head of the femur, bulging into the pelvic cavity rumaiss in the post tion it assumed during the height of the disease Of the 13 cases 4 occurred in men and in 6 of the cavity and the cavity of
Ryan Muscle Degeneration and Ostroma-Illinois M J , 1913, xxii 71 By Surg Gynec & Obst

This article embraces a review of the literature upon the subject of myositis ossificans traumatica, with a review of 4 cases that have com- under the observation of the author These cases were at one time considered rare, but since the advent of the Xray they have been found rather frequently There are upward of 500 cases that have been reported in

the bierature

Several theories are held as to the causative factor in the production of provistio sosafeans trainmatera. Buse and Blecker support the theory that it is caused by an indiaminatory process. The theory that it is a true osteoma has a great many supporters. Nicoladoni believes that the condition is due to trophoneurotic changes. A few observers believe that the synovial fluid liberated from the joint by the majory may have some unusual action upon the injured tissues. But this view does not seem correct when we remember the large number of cases where a joint has been opened by activation or intent mispliced embryonal tissue is held by several of servers.

The pathology according to Virchow is due to muscle degeneration. He considers the growth on the border line between an ostroma and an inflammotry process, and he believes the changes occur in and are derived from the muscle cells and not from periosetium or from bone or connective tissue. All most of the contractive times are all the contractive times and the contractive times and the contractive times. All most officers are now unautimous the bodient times are all the contractive times and the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times are all the contractive times and the contractive times are all the contractive times and the contractive times are all the

muscle tissue is merely accidental

The diagnoss is made on the history of trauma the persistence of a stony hard swelling tender ness on pressure and limitation of motion long after the limb should have recovered its normal range of moviments The X rays are of immense value and should be taken in at least two planes.

The treatment is conservative and radical 1 he conservative treatment is adopted early and consists in rest aspiration of the fluids in excess and hot or cold applications. When the X rays show a bony growth is the best procedure Removal of the bony growth is the best procedure Removal of muscle surrounding or connective insiste attached to the growth is advised and if the state attached to the period the state of the period of the proposed in the state of the period of the

Tour cases are reported in the article. These were all cases where the region of the brachaslis anticiss was the part affected. Two of the cases were operated upon with good results. The other two cares could not be followed as one refused to cares could not be followed as one refused to care the country of the cases of the cases and the other left the hospital and fraired to care the country of the cases and the country of the cases of the cases in the tendon of the burnchils anticiss muscle and in the other case the whole mass was beneath the persistent and proved to be a simple ostroma, both in macroscopic and microscopic appearances both in macroscopic and microscopic appearances.

FRACTURES AND DISLOCATIONS

Grégoire- Pathogeness and Pathological Anatomy of Recurring Dislocation of the Shoulder (Luxation réciduante de lepaule, anatomic pathologique et pathogénie)

Re d'orline 1913, 19, 15

By Journal de Chrurgne

The author points out that recurring luxation of the shoulder differs from the ordinary traumatic dislocation which appears in a normal articulation as the result of a violent traumatism in that it often follows an insignificant traumatism owing to the fact that it occurs in a congenitally malformed articulation. The articular malformation which predisposes to recurring dislocation consists first in a thinness and an abnormal laxity of the capsular tissues The capsulo periosteal separation described by Broca and Hartmann is according to the author merely the unhealed rupture following an extracoracoid luxation and cannot be invoked as the recurrence The separation of the capsule from its insertion on the glenoid border which has been described by Quénu is perhaps only this same lesion of Broca and Hartmann after cicatrization author bases his statement that the thinness and relaxation of the cansular tissues is congenital upon personal observation and the observation of many other authors. Torta's recent thesis on the vol untary subjuxation of the shoulder is an agreement with the author's statement

Inothe factor consists in the millormation of the head of the humerus. There is a defect in the posterior protion of the had of the humerus as if a piece like the segment of an orange had been ablitted. This defect which has been noted by many authors in cases of recurring dislocation of the shoulder is due notifier to traumatic depression nor to local friction but according to Grégoire is a congenital millormation.

Ruth Fracture of the Femoral Neck Its Ana-

By Surg, Gymc & Obst One third of all fractures of the aged are of the femoral neck Reports from over 200 cases treated by the 'antiomic method prove that good results are as certainly attainable in the treatment of this as of any fracture of the femur Fowler's and Kern's illustrations of the method are complicated; and

tomic Treatment Albany if Ann 1913 xxxiv, t

The treatment is in reality very simple and ran be applied by anyone understanding the objects sought viz overcoming by longitudinal and lateral traction all the displacing influences of (r) the vertical oblique, and internal pull of the muscles crossing the fracture line (2) the weight of the himb and (3) eversion by the rotators

misleading

Lnough traction must be applied longitudinally (usually 15 to 30 lbs) and laterally at the upper end of the thigh (usually 10 to 20 lbs) to overcome all shortening and flattening of the hip. The lateral

pulley should be high enough to enable the lateral traction to overcome eversion of the foot

The illustrations indicate the proper application of the method, which will always make the patient comfortable and which will insure union in those having sterngth enough to survive the shock of the injury and who live four weeks thereafter

Patients may be raised to a sitting posture daily, as required for cleansing and rest, and to avoid the danger of hypostatic pulmonary congestion so important in the very aged and feeble. By flexing



Fig 1 Illustrating effect of longitudinal and lateral traction with the resultant force acting in line with the neck of the femur (Ruth)

the sound leg the hips can be raised for use of the bed pan without pain, as none of these movements will disturb the fragments or interfere in the least

with union G W Phillips first used this method in 1867 T J Maxwell improved the method but did not use it until 1871 The author makes this correction because he had supposed Maxwell was the author of the method and had given him credit for 22 years in his teaching and writings

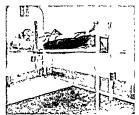


Fig. 2 Showing the proper position of the bed tilted with the injured side and the foot of the bed raised enough to cause the body weight to make the required counter For an adult male tolerably muscular the weight at the foot should be from 20 to 30 pounds at the first and the lateral pull should be usually about twothirds as much as that used on the foot The use of this apparatus is equally applicable to the treatment of all cases of tuberculosis of the hip joint when they must be confined to the house or to bed as it places the joint in absolute rest and avoids all muscular spasm. Proper adjustment of the spreaders at the foot and in the lateral pull will avoid all injury to the malleoli and cedema of the limb from compression of the long saphenus while proper adjustment of the lateral pull will regulate the degree of inversion of eversion (Ruth)

Patel and Viannay Complete Subastragaloid Internal Dislocation of the Foot without Perforation of the Skin (De la luxation sous-astra galienne comp'ète du pard en dedans sans perforation de la peau) Rev d'orthop 1913 iv a

By Journal de Chirurgie

Patel and Viannay report three personal ob servations of this traumatic lesion together with a case of Gayet and Deber which has been published in Writher's thesis (Thèse de Lyon 1011 12) Under the name of subastragaloid internal luxation of the foot they describe a displacement in which the foot pivots internally so that the plantar surface becomes median while the tibia and abula holding the astragalus between them form the lateral prominence These luxations seem to depend upon a lessened resistance of the interosseous lighment The condition has sometimes followed a very slight traumatism The swelling may mask the clinical Bimalleolar fracture should however, cause no difficulty in the differential diagnosis and medio tarsal luxition is likewise easily eliminated doubtful cases radiography will settle the diagnosis Reduction should be carried out at once, lest the prominence of the astragalus lead to perforation of the skin or lest compression of the vasculo nervous bundle on the internal aspect of the ankle compromise

the vitality of the foot Under general anzathesia the reduction is usually easy However, certain complications, such as luvation of the extensor tendon or the ensiform ligament render reduction miscossible without an open operation or astragal ectomy, to which latter the authors give their preference.

Alberta Modulett

SURGERY OF THE BONES, JOINTS, ETC.

Bartlett · A Consideration of 76 Operations in Which Lane Bone Plates Were Used, Boston

M & S J, 1913, clavin, 149
By Surg , Gynec & Obst

Bartlett comments on the conviction as to the value of the Lane method of treatment which is gained by witnessing the operative procedure, especially as carried out by its author, but adds that its actual value can be established only by a study of the end results. In his own case the but are so that the contract of
In the 76 cases upon which he has operated, the mortality was 3 o per cent. Only 38 cases could be traced for a period ranging from 2 to 20 months. Of this number 22 were simple and 16 compound fractures, 4 of the latter being suppurative at the time of operation. In 13 cases the plates had to be removed, 4 of them being simple and 9 compound fractures Seven of the 38 cases are considered failures and are given in detail 1 A fracture of the femur in a so-year-old alcoholic woman, death after to days from delirum tremens and infection of the wound 2 Fracture of clavicle in a 40 year old alcoholic male, death from post operative pneumonia 3 Compound fracture, both bones of the leg became severely infected and the plate loosened up, requiring removal 3 weeks later 4 Compound fracture of femur followed by infection which necessitated removal of plate after 3 months after which the fracture herled 5 Compound fracture of tibia from street car accident plated immediate ly, death in 3 days with high fever and probable fat embolism 6 Compound fracture of both bones of forearm, radius plated immediately but amputation necessary one week later because of gangrene Compound fracture low in the tibia, plated unsuccessfully elsewhere, a second plate applied, but amputation was finally necessary after weeks of suppuration Satisfactory end results were obtained in the other 31 cases. However the author takes a very conservative stand and warns against the employment of the procedure except in carefully selected cases D B PHEMISTER

Gazzotti Experimental Contribution to the Study of Cunelform Osteoplastic Grafts (Coa tributo sperimentale allo studio dell'influitazione) Politin Sc. chir 1912 xit 336 By Zentralbi f d ges Chir u i Grenzgeb

Under aseptic precautions Gazzotti resected the distal epiphysis of the femur and the proximal

epiphysis of the tibia of rabbits which had just been billed and transferred them to other rabbits by grafting the pieces, as a central wedge, in the resected and excavated medullary spaces He then made a histological examination of these 33 test animals, 2 to 15 days after the transplantation The results at which he arrived do not differ materially from those obtained by other authors (Axhausen, Barth, and Frangenheim) On the receptor bone he observed regressive processes (necro sis and absorption), taking place in a certain se He also observed neoformation of osteoid and osseous tissue and necrosis and absorption of the excess of newly formed elements On the implanted material, he noted regressive processes to the extent of complete disappearance of the implanted bone elements Proliferation on the part of the osteoblastic layers was intermittent and slight, resulting in very limited production of osteoid and osseous tissue. The invariable outcome of the experiments was necrosis and complete absorption of all the newly formed material Unlike Axhausen and Barth Gazzotti was altogether un able to find hving bone substance in the vicinity of This disintegration of the solid the periosteum elements of the implanted bone is traceable to the interruption of circulation and of the nerve con nections The less differentiated elements of the periosteum and the medully on the other hand, retained their vitality and power of proliferation as they were nourished by the fluids circulating in their vicinity Gazzotti refers to the favorable effect (noted by Axhausen) of a longitudinal incision made into the periosteum of the implanted bone for the purpose of facilitating the access of the fluids Reasoning by analogy from this fact, we should expect to find that disintegration of the solid elements begins in the deeper layers This, however, is not the case for necrosis begins at the exterior surface and the interior surface (facing the medulla) of the disphysis and from there spreads to the deeper layers Disturbances in circulation can, therefore, not be held accountable for the disintegration of the newly formed osseous elements of the implanted material As the microphotographic slide demon strates, very vigorous unions were formed with the vascular system of the receptor bone at least during the early stages so that nutrition must have been more than sufficient, yet regressive processes had even then begun to develop in the newly formed bone tissue At a later stage, it is true, the medulla had been transformed into fully developed con nective tissue poor in blood vessels and the entire newly formed bone tissue had undergone necrosis Sclerosis of the parent tissue might therefore have influenced the final changes but it could not have affected the regressive changes in the newly formed bone elements, as these had already set in at an earlier stage. So Gazzotti concludes that the absence of functional stimulation is to be held chiefly accountable for the necrosis of these newly formed bone elements

Certain favorable influences, however are in leed exerted by the implanted material on the osteoblastic elements of the receiving bone. It stimulates them in the manner of foreign material introduces esteoblastic substance capable of proliferation as well as lime salts and other products which result from the breaking down of the implanted bone These favorable influences must however be checked off against unfavorable influences of which Gazzotti names the following (1) Regressive proc esses take place in the receptor bone (necrosis and absorption from a constant focus in the diaphysis) which counterbalance the favorable estephlastic stimulation produced by the implanted wedge (2) Bone formation on the part of the specific elements of the implanted bone is intermittent and ultimately these elements are completely absorbed

On the basis of his histological results trazzotti thus arrives at certain conclusions respecting the suitability of hone grafts as a method of treating pseudarthroses and frutures with returded formation of callus. He believes that in pseudarthroses and in cases of retarded formation of cillus the nutritive conditions of the bores are more unfavor able than these which obtain in perfectly healths test animals. The regressive processes in the recepfor hone will therefore of necessity be much more marked than in these experiments. Hence we have no certain assurance that an increase in osteoblishin reaction on the part of the receiving bone will be produced by the wedge At the same time more over regressive processes are taking place and the bloods intervention itself very probably has an unfavorable effect on union of the frutures. Because of these considerations and on account of the complete absorption of the implinted material and of all the tissue elements newly formed by it the value of the method of implantation as a treatment of pseudarthroses and fractures with retarded forms tion of callus must be put down as considerably lower than has been done hitherto

Taylor Restoring Mobility after Bony Ankylosis of the Joints From M. J. 221, 221, 221, B. Surg. Game. & Obst.

The author presents a payer on the use of war mutures after extraheds to the presention of the reformation of ankylose. He briefly reviews the Armous methods previously amployed for restoring mobility after inkyloses and divides them into use going in the property of th

Groups 1 and 2 are obsolcte. Groups 1 and 4 present at times one or more of these objections following the operation. length of operation pain

fever suppuration sloughing sinus formation and reformation of ankylosis

Prognosis as to mobility after operation depends on joint involved, degree and nature of involvment causative disease or condition, and changes in a leacent parts.

Atrophy exteoporous deformed articular ends thickening of capsules shortening of ligaments tendons muscles etc. influence results Acute cases or active chronic cases are not suitable for

sterro arthrolous In June 1011 the author began laborators and animal experimentation to determine a liquid alsorbable animal substance that could be sterilized and injected by syringe between the denu led ends of hones entering into the proposed ten made articulation and that would solidify immediately at texts temperature in such a manner as to prevent contact for some six or eight weeks before absorption. The temps rature on injection must be below se if ling (some and the congested resultant was not to be absorbed but its the demuded hone ends healed bills wire and gelitinous substances were exteriments I with in combination and in various projections to determine melting and congrating prints and the rapidity of absorption was tested by injurious subcutaneously in rabbits. Yellow was and lanolin or other animal fit mixtures melt ing at 10 to 15" were chiefly used in the o cases terested. These were four kners four hors and one ellion operate I on for the relief of ankylvers, and in none of them did re ankalosis occur

The best results were 60° or motion in flexion in a knee of in a hip and full range of motion at the elbox

The author advocates a thij of skin to cover the mess in into the aspeals of the saped so the mess are not one of the wax musture than is necessary to cover the douast. Usen, in the wax a wax musture dataset as much is a possible to favor rayed in complete absorption and thought shaping of the articular ends by cheek's and googen to approach another and province at the time of the ejection and not leaving too much to Wolff's law is violing the best results.

In defense of his method the writer claims the prevention of the reformation of bony ankelons the distinct of pain and fever and rapid ability to move the joint more or less voluntarily. The war ists not only as an anasthetic quishon between the down led bone ends but as a hemoeratic plug to corring bone vises by

Galloway Observations of Tendons Transplantation Operations Surg Grace & Obst. 1913. 884. By Surg. Grace. & Obst.

Gillowis distributed at length seven operations for the transplantation of tentions for varying orthopidic conditions. He lays down six rules for success. First perfect asspess second, attach munt of the transplanted tendon to the bone or periosteum transplanted tendon to the bone or periosteum transplanted tendon to the bone or periosteum transplanted tendon to the bone or

ately tight before being secured, fourth it must be fastened with suture miterial that will maintain its hold for several weeks, fifth a covering of sub-cutaneous tissue should be brought over it before the skin is sutured, sixth ample time (about six to eight weeks) should elapse before the trans-natured tendon is allowed to functionate.

The first group he describes as for the trans plantation of the extensor propriate policies to he need of the first metatarsal. This is to transfer the action of this muscle from the movable to the relatively fixed metatastal to make it a power ful dorsal flexor as well as an increting force to the foot. Although he does not state in what class of cases he uses this operation it is evidently for those cases of infantile pratalysis in which there is an inversion and fall foot.

Group "B" consists of transplantations of the perione to the inner side of os calcis which he suggests as a helper to Group '\ in cases of paralytic valgus. In some cases he does an arthrodesis of the astragalo scaphoid articulation.

Group "C"—transplantation of the outer half of the tends achills to the inner aspect of the heel In this operation where the transplantation of the perons idea in steem best he splits the lower two or three inches of the tendo achillis detaches the outer half with a thin layer of intellining bone, draws this through a tunnel created anterior to the miner half of the tendon and attaches it to the inner side of the heel. He starts the cases deminding this operation are chalf; those in which the tando be dorsally deved to the normal extent. He holds that in these cases this tendon produces a valgue and it is usually necessary to leighten the tendon by a tendony by Beyers method the trans

plantation being done about three weeks later Group "D — transplantation of the tibulis anterior to the outer side of the tarsis. This operation he does in cases of pracipits varius. We obtains the attachment by drilling the fifth meta tarsal and drawing the tendon through it detaching the tendon as far forward as its institution extends the tendon as far forward as its institution extends and dissecting it free to this point, as it is usually short at best

Group "L" is for the transplantation of the becrep or seminembranosus to the patella. He does this operation when the hamstring muscles are intact but the extensor quadriceps are paralyzed, to give support to the knee and avoid using an apparatus to prevent this joint giving way. If possible he chooses the biceps for this operation, but if not possible he uses any of the flevor group

The grown are used any of the incore group. In Group "I he author treats of the transplantation of the pronator radii teres to convert it into a
supmator. If it states that he has performed this
operation a number of times and found that it has
kesned the resistance to supmation, but he has
never been able to satisfy himself that the result
has exce become an active supmator. He thinks
the improved condition of the arm results quite as
much from the mustle being completely shorn of

its power to act as a pronator Group G' is for the conversion of the flexor carpi radialis and flexor carpi ulnaris into extensors The author states that this operation is nearly always performed in connection with the transplantation of the pronator radu teres as a sec ondary operation done two or three weeks after wards The insertions of the flexors are exposed through short incisions directly over them on the front of the arm tendons are detached with a stout bone knife and cleared for a counte of inches above After exposing the lower part of the extensor carps ulnaris through an incision behind the lower part of the ulna, the skin is tunneled and the end of the flexor drawn through and stitched as low as possible to the tendons of the extensor The flexor carps radialis is carried to the back of the wrist and attached to the extensor carpi radialis longior. He states that although the transplanted flexor may not be reasonably expected to act as extensors very actively the advantage of depriving them completely of their power to flex the wrist is a distinct advantage and he states that in his own cases he has seen the flexors exert a positive extending action P B MAGNISON

ORTHOPEDIC SURGERY

DISEASES AND DEFORMITIES OF THE SPINE

McGlannon Ankylosis of the Spine Old Dominion

J. M. & S., 1913, xv. 1. By Surg., Gynec & Obst.

The author states that inflammatory projections from pre ensuing bone (spondyluts deformans), ossification of the soft itssues (spondylose rhizome lique) or regenerative formation repairing bone destruction, lead to ankylosis of the spane. In defection, the control of the spane
Doerr Static Scoliosis (Beitrag zur statischen Skoliosenfrage) Zischr f orthop Chr., 1913 xxxi, r By Zentralbi f d ges Chr u i Grenzgeb

The accounts of the frequency of occurrence of status esolosis vary greatly. Some authors are of the opinion that functional change in the development of the individual organism, that is from the strindpoint of ontogeny, is an absurdity. Because of this diversity of opinion Doerr reviews the cases of scolosis of Langeschen's clinic in Munchen. He made a careful investigation as to the number of

cases of static scoliosis
Static scoliosis is due to a difference in the length

of the legs, and in order to confirm the diagnosis measurement of the length of the lower extremities is absolutely necessary. To do this the author used one of Ingerhard's apparatuses, slightly modified by himself. All measurements were repeated three times, on different days, so that it was impossible to make mistakes in measurements. An X ray plate was also taken from every patient included both the pelvis and the upper part of the thigh in order to confirm with the plate a coxa vara or coxa valga. The X ray plates were taken with the limb rotated inward for 20 to 30 degrees. The investigations were made on 220 cases of scoliosis Out of these 220 cases the author observed 14 cases with static form of scoliosis. This gives us an equialent of about 7 per cent Schykthelz also found that the frequency of static scoliosis was approx imately 5 per cent when calculated from all the cases of scoliosis in the literature. These investigations showed further that the frequency of static scoliosis is without question fairly constant and that it is much more common than many writers In examination of the entire static seem to think region, that is the lower extremity including the pelvis, is absolutely necessary

Auer: Spastic Paraplegia, with Cutaneous Reflex of Difense Occurring in Pott's Disease J Am M 45sn, 2013 is 260 By Surg Gynec & Obst

In 1800 Babinski described a form of spastic paraplegia due to an organic ksion but without degeneration of the pyramidal tract the chief characteristics of which were contraction of the limb in flexion and marked exaggeration of the cutaneous reflexes, the tendon reflexes being usually not exaggerated and often diminished. In the two cases of spastic paraplegia reported the one occurring in an early the other in a late Pott's disease it was observed that cutaneous stimulation of the affected member by pin prick caused a rapid withdrawal of the limb in flexion. This phenomenon is not only found among the earliest signs but mix also be present with complete loss of sensation to touch main and temperature abolished reflexes and paral sess of the affected side. That the cutaneous reflex of defence is a result of a compression is proven by its disappearance in one case after pulliative re moval of the pressure in the other after operation Its occurrence has been reported in sarcomatous meningitis, multiple sclerosis I riedrich's attains and I ott's disease. The reported cases show that spastic paraplegia with the cutaneous reflex of defense is often due to a gradually progressing com pression myelitis, and is of importance in the differentiation of the spastic paraplegias

Ebers Case of Operated Spinst Cord Tumor (fall von openerien Rickenmarkstumor) Deutsche med Mehnehr 1913 xxxx 70 By Zentrilbi f d ges Chir u 1 Grenzgeb

A woman, 23 years old, previously healthy, was suddenly taken sick, following a cold, with fever prin in the back and paræsthesias in the right leg Two months later she presented severe, purely unilateral disturbance of a central nature, with nystagmus pallor of the temporal balves of the papillæ and absence of the abdominal skin reflexes. Multiple sclerosis was thought of In a few weeks the picture changed to that of a complete transverse lesion so that the presence of a constricting process in the spanal canal was held very probable. Lumbar puncture showed a pressure of 110, the fluid was slightly sellow in color contained much albumin and few leucocytes In the operation performed by Garré the incision was made over the second and third dorval vertebrae as the upper border of the sensors disturbance at the fourth rib showed that the third to the fifth dorsal segments were involved, and under the second vertebra was found a flat, reddish formation under the dura. After scraping the dura and opening the sac a succulent deep blue mass protruded from the posterior aspect of the spinal eanal The soft tumor reaching to the first vertebra was spooned out and its center was found to have croded the cord Histologic examination (Rilbert) revealed a large celled sarroma springing from the membranes. Healing by first intention occurred Temporary improvement was followed by oxinful muscular spisms high grade reflex excitability vertigo cistitis decubitus and death one month after the operation. Autoress was not allowed, so that the possibility of the coincidence of a tumor and multiple sclerosis could not be vented STREISSIER

Park Fracture of Atlas, Spontaneous Fatrusion of Fragment Through the Mouth, Recovery, Budglo M J, 1013 from 312

By Surg Gynec & Obst. The late James P White of Buffalo one of the best known American obstatricians of the last century during the middle years of his life was thrown from a stage coach so violently as to seriously injure the upper part of the neck No account is extant of the features of his case at that time but Park re produces a certificate published in the Philadelphia Medical Vers under date of November 27, 1886, signed by Joseph Fancoast and duly attested, in which he states that he examined a fragment of bone known to have been spontaneously extruded from the pharenx of Dr White and describes it as the frontal segment of the atlas with the facette which received the adontoid process the fragment measur ing about in inch in its greatest diameter. White was well known to have removed this specimen from his mouth and submitted it to Professor Patterson to show to Professors Pancoast and McClellan It is Pancorst's opinion that the transverse ligament had so retained its hold on the extremities of the remaining portion of the atlas as to protect the spinal cord from injury. By personal acquaintance and in other ways Puncoust has satisfied himself of the authenticity of the report. White lived for many years after the injury which he received in 1837 while his death occurred in 1881. He seemed

in no way to have had his usefulness or health impaired. Assuming the correctness of the statements, for which Park vouches the case is one of the most unique on record.

Haskovec Symptoms and Diagnosis of Lesions of Cauda Equina and Contus Medullaris (Zur Symptomatologic und Diagnose der Störungen der Cauda equina und des Conus medullaris) Il sen med Il chrisch 1913 km 20

By Zentralb! f d ges Chir u i Grenzgeb

The author reports an interesting case with a lesion of the cauda equina There was a complete angesthesia of penis and scrotum a diminished sen sibility of the posterior surface of the legs and feet. and a derangement of function of the vesico rectal region. It is evident that a lesion of this sort is due to an involvement of the sacral plexus on both sides, but especially of the third and fourth sacral roots The symptoms in the regions specified point to the fact that the lesion is confined to the cauda equina He considers this condition to be a chronic luetic process, and bases his diagnosis upon the history which is not always reliable upon the fact that the prins appeared chiefly at night and upon the ab sence of any evident lesion under the X ray even though the patient had been sick for 22 years Cases showing the final result under specific treatment which would confirm the diagnosis are lacking and operative measures were not resorted to in this

Goldthwait An Anatomic Explanation of Many of the Gases of Weak or Painful Backs, as Well as of Many of the Leg Paralyses Boston W & S J 1913 clxvii, 128

By Surg , Gynec & Obst

Goldthwait calls attention to articles regarding the sacro idae joints, lumbo scaral joints, hyper trophic arthritis of the spine, and the rheumatoid dessars. He believes that some of the peculiarities which have been described in these articles are much more common than originally supposed, and that the combination of some of these conditions replains symptoms which formerly had not been understood. An excellent collection of 18 illustrations is displayed.

He urges that the knowledge of the anatomic formation of the parts should be thoroughly understood and explains that the flat surfaces of the articulations of the pelvic point, with their vertical oblique axes, show that there can be but little support from the bones themselves and that their stability must depend upon the soft structures, the muscles and the ligaments

Patients can usually be reheved by supports, such as belts, straps, braces and exercises, in case the bones are not misplaced. When the bones are misplaced, rehef is found, after the bones have been

replaced, by similar supports

In another class of cases, study of the proper relationship of the parts as affected by good and

had pose is taken up. The suggestion is made that a better understanding of the pelvic joints, together with the appreciation that their stability is almost wholly dependent upon the tone of the muscles, has made it possible many times to correct postures of strain and to restore muscle balance so that normal instead of harmful function could

result Considering the lumbo sacral articulation, he believes that the transverse processes upon the last lumbar vertebra are broader than normal and that occasionally they are articulated with the top of the sacrum. These processes may also articulate with or press against the top of the sacrum or the wing of the ilium with resulting weakness of the sacro than toint. A process may simply be somewhat larger in all its dimensions and he of little importance except as the body is bent to the side impinging against the top of the sacrum, serving as a fulcrum for straining the lumbo sacral joint It may be still larger but evenly and bilaterally enlarged so that not only does the process impinge against the top of the sacrum in side bending but in droop ing the body the increased lordosis results in the crowding of the processes against the top of the sacrum In such postures since the transverse and articular processes are behind the body of the vertebræ the weight of the individual must be taken off the body of the vertebre and thrown upon the transverse processes and the tip of the articular processes

He shows that the lumbo sacral transverse articulation may exist upon both sides or upon only one, but if it exists upon both sides the two sides are rarely the same one side usually being larger than the other

Regarding the atticular processes he finds if the body is dropped so that there is an increase of the lumbar curve the weight is received in part upon the tip of the articular processes with the effect that if long continued a new articular facet at the top of the articular process of the lower bone is formed, the articular process of the curve where the articular process points can be considered to trular surface forms as the result of the articular process of the vertebre above being crowded down ward onto this point.

Among the symptoms he calls attention to pain, numbness or paralysis in the leg. For referred symptoms may not be obvious. Complete paraplegia, involving not only the legs but the bladder and board, may occur as the result of strain or or as the result of the dislocation backward of the intervertebral disc.

Less extreme conditions of paralysis or disturb.

ance of sensation in the leg find their explanation in the anatomic formation. With the increased width of the transverse processes or with the crowding of the articular processes to spether, the space in which the nerve root leaves the spine or the space in which the lumbo sacral cord lies as it passes under in which the lumbo sacral cord lies as it passes under

the transverse process and over the sacrum to join the sacral plexus must be narrowed. This at times is enough to simply irritate the nerve, causing pain referred to the leg, at the distribution of the nerve, while at other times the constriction is enough to

cause paralysis

Regarding treatment, he states that if the sacro liac joint is involved as part of the lumbo sacral malfornation, it is obvious that treatment directed to the sacro idiac joint will not bring relef. In such a case not only must the sacro-idiac joint be such a case not only must the sacro-idiac joint be so possed that there is the least possible irritation at the lumbo sacral joint, as well as the least possible pressure of the trans-tere process against the sacrum and ilium. To relieve this pressure of the trans-tere process against the sacrum and ilium. To relieve this pressure of the trans-tere process against the sacrum and ilium. To relieve this pressure of the trans-tere process against the sacrum and ilium. To relieve this pressure of the trans-term processor of the trans-term and the processor of the trans-term and the processor of the trans-term and the processor of the

MALFORMATIONS AND DEFORMITIES

Sever. Orthopedic Principles for Use in General Practice Boston M & S J, 1913 cixvin, 1 By Surg, Gynec & Obst

The author takes up those orthopedic conditions which the general practitioner sees most frequently, such as diabloot, way neck acute synowits, infantle paralysis, weak feet, etc, and discusses the simpler methods of treatment which are available and useful. He lays emphasis upon the fact that may conditions need not go on to severe deforming needing operation and braces if properly and persistently treated early, when they are under the observation of the family this scina.

This is especially true of clubfoot infantile

paralysis and acute joint affections which later become chronic and result in distortions of the limb Many of the procedures are carefully described in detail. It is an article that should be read with interest by the general practitioner. Jorn L. Postey.

Forbes. Clawfoot and How to Relieve It. Surg., Gynec & Obst., 1913, 201, 81 By Surg., Gynec & Obst.

Forbes describes clawfoot as characterized by foreshortening of the foot with contraction of the plantar fastac causing cavus, by tomic contraction or permanent shortening of the extensor muscles and tendons causing hyperextension of the toes and a depression of the metatarsal heads.

It is never, in his experience, congenital, but has an insidious onset. His procedure for correcting this condition is as follows Transplant the common extensor tendons into the heads of the metatarsal bones after having detached them from their insertion into the phalanges. He believes that the common extensors, while maintaining the phalanges in position of hyperextension, are acting as a power for positive evil Transplanting these gives support to the depressed heads of the metatarsal bones He raises the heads of the metatarsal bones by pressure from beneath, drills small holes laterally through the bone and inserts a silk ligature through this hole and the tendons holding the tendons close to the heads of the bone If this cannot be done, be passes the silk clear around the heads of the bones and ties it firmly. The author makes a horseshoe incision on the dorsal surface of the foot to get at these tendons and follows this operation with a fasciation of the plantar fascia, stretching the foot over an orthopedic block and afterwards putting it up in plaster P B MAGNUSON

SURGERY OF THE NERVOUS SYSTEM

Weiss Symptoms Simulating klumpke's Paralysis Following an Accident (Line des Symptomen der Klumkeschen Lähmung abnische Unfallfolge) Aertil Sachrest Zeit 1913 312 31 By Zentribl f d ges Chir u 1 Grenzgeb

miner who had been injured two years ago showed symptoms simulating those of Klumpke's paralysis. The symptoms appeared on the side that was least injured by the accident There was a disturbance of the sympathetic, causing a prosis of the upper lid, miosis, and the skin about the ear was red and somewhat glossy. The secretion of sweat stopped on the affected side and the face became asymmetrical There was also a slight lesion of the sensory nerves supplying the arm and of the branches originating from the eighth cervical and first thoracic nerves The presence of the sympathetic lesions, according to the author, are due to the close proximity of the inferior cervical GRASHEY ganglion

Beer The Relief of Intractable and Persistent Pain Due to Metsatases Pressing on Nerve Plexuses by Section of the Opposite Antero-lateral Column of the Spinal Cord Above the Entrance of the Involved Nerves J Am VI Am, 1913 it 267 By Sug. Gynce & Ost

In the case here reported the patient was suffering from uncontrollable pains due to a metastruc carin noma pressing on the nerve pletuses in the pelvis, following a carcinomia of the uteria that had been operated some one of the pelvis of the pain) anterolateral ascending sensory tract. This section was made just in front of the crossed pyramidal tract, is approximately 2 mm anterolateral of the position for the tent of the position rener cost, and of the position rener cost, and case in the pelvis of the pelvis o

anæsthesia from the first lumbar distribution down through all the sacral roots, and pain never recurred in this distribution, though some time later the patient developed pain in a higher segment, as the metastasis grew to the level of the umbilicus After the operation there was a transient motor paralysis which disappeared within a few days, as the patient was able to walk after ten days with only slight weakness of the leg on the side of the operation

The author concludes 1 Surgically considered, the operation of cutting the anterolateral column without doing serious damage to the rest of the spinal cord is perfectly

feasible and not difficult

2 Therapeutically considered, the almost com plete freedom from pain produced by this surgical intervention met the indications presented in the case here reported, and in many other sufferers a similar intervention, I feel sure, will give similar relief

3 Physiologically considered section (complete?) of the anterolateral column produces (a) loss of pain sense on the opposite side of the body, (b) a disturb ance in thermal sense, which suggests that the fibers for heat and cold are dissociated in the cord, (c) slight disturbance of deep pressure sense and slight

est disturbance in touch sense, both being impaired without producing any disturbance of sense of position

Frazier: The Relief of Gastric Crises in Tabes Dorsalis by Rhizotomy Am J M Sc, 1913, By Surg , Gynec & Obst cxlv. 116

The first rhizotomy for the relief of gastric crises was performed by Forster in 1908. He cut the sixth to tenth dorsal roots within the dura Patient was completely relieved until the time of his death nine months later

Frazier's case was a man forty years of age who had had severe crises for three years. The laminar of the fifth, sixth and seventh thoracic vertebræ were removed and the seventh eighth ninth and (left side) tenth were cut There had been no recurrence of the pain and vomiting at the time of writing, seven months later

Frazier urges that the operation be completed at one sitting and that the nerve roots be severed within the dura. He was able to gather records of to cases of rhizotomy for gastric crises Of these, there were a complete recoveries 16 were improved, and 5 deaths IAMES F CHURCHILL

DISEASES AND SURGERY OF THE SKIN AND APPENDAGES

Bruck and Glück. The Effect of Intravenous Infusions with Aurum-Kalium Cyanatum (Merck) in External Tuberculosis and Syphilis Munchen med Wehnschr 1913, lx 57 By Zentralbl f d ges Chir u 1 Grenzgeb

Starting from an observation of Koch, the authors have in a number of cases of extensive lupus injected solutions of aurum kalium cyanatum in amounts of 0 02 to 0 0; gr, a dose every second or More than 0 05 gr should not be given As a rule, twelve such injections were made with the result that everywhere a considerable improvement of the foci could be observed. Where gold was injected in combination with tuberculin at the height of the reaction, the effect was still more favorable Also in syphilis especially in the tertiary cases, very favorable results were obtained, which could even be favorably compared with the action of salvarsan

Saalfeld Radium and Mesothorium Treatment of Skin Disease (Ueber Radium und Mesothorium Behandlung bei Hautkrankheiten) Berl klin H chuschr 1913, 1 166 By Zentralbl f d ges Chir u i Grenzgeb

On the basis of his experiences (presentation of several cases). Saalfeld recommends radium and mesotherium in the treatment of slowly growing, slightly adherent cancroids. In inoperable cutane ous carcinomata the treatment is worthy of a trial

Radium and mesothorium are contraindicated in rapidly growing and very malignant cutaneous carcinomata. A further indication for the application of radium and mesothorium is found in keloid. lichen ruber planus and verrucosus and in isolated obstinate plaques of psoriasis Angioma are to be treated by this method only when other methods (CO, snow) fail The author warns against the indiscriminate use of these remedies for cosmetic purposes, because the idiosyncrasy toward radium and mesothorium, just as toward the X rays, can produce injuries worse than the primary affection To intensify the action Saalfeld allows CO, snow to act in the spot for 5 to 10 seconds before the treatment and recommends this method as an after trial THERMANN

Neudorfer The Application of Free Fascia Transplantation (Zur Verwendbarkeit der freien Pascientransplantation) Zentralbl f Chir , 1913, xl.

By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

The author made use of autoplastic fascia transplantation in cases of spina bifida occulta and meningocele occipitalis inferior. One of the two children was 4 months old Both left the institu-The simplicity of the technique and the excellent result attained make the author beheve that these cases can very well be treated in this W2Y

MISCELLANEOUS

CLINICAL ENTITIES - TUMORS, ULCERS, ABSCESSES, ETC

Bashford: The Carcinoma Problem (Dis kttbsproblem) Deutsche med Webusche xxxix 1913 4 By Zentralbl I d ges Chie u i Geenegeb

The former teaching that sateoma is a discuss of youth is untinable. Although sarcoma is relative ly more frequent during youth while carcinoma is more frequent during old age, both mere as, with age The relationship of mortality to age varies for diffirent organs but is similar for the same organ in both sexes, for example the age curve for eareinom i of the breast in both sexes is about the same, the total deaths from carcinoma of the uterus are much higher than for circinoms of the breast It follows from the statistics that the influence of seniscence is more important for the production than for the growth of careinoms. To speak of a general in crease of carcinoma is wrong since cert un parts of the body - for instance skin liver genital organs and others - show no increase of only a slight one In executions of the breast, and especially that of the intestinal tract an increase is certain fremency of cases of carcinoms in different coun trus depends upon the development of mortality statistics. The supposition that carcinoma is relatively infrequent in some countries is over thrown by the facts of the I nglish statistics. The simultaneous occurrence of certain forms of carcino ma of exotic tribes with chronic irritation is important, for example the frequency of caremoma of the mouth in the women of India who ches betel nut There are similar examples from the animal domain In India there occurs in catile a payement enthelium carcinoma it the root of the right horn - never on They are harnessed by the right horn

Statistics and animal experiments speak against an infectious chology and theory of contagion Animal experiments show also that tumors do not generally grow upon a soil suitable for the growth of circinomy - for example aging organism but that the origin of the spontaneous carcinoma and its growth is an individual question for each case The value of a chronic irritation for the origin of a tumor can be traced to a certain degree in experimental animals in which possibly through narasites (numrtodes in carcinoma of the breast ob served in rats) a chronic irritation is produced al though it may play only an indirect rôle plantation tumors in mammalia grow only then when they are taken from animals of the same species An artificial immunization against tumors of the same sort by vaccination with tumors or normal tissue of another individual of the same species is possible. Ill attempts at immunization against spontaneous tumors have been futile They progress and show metastases

In the constancy of most tumor varieties it is

especially the variability of the tumor cells in artificial transplantation which gives us the interest ing insight into the relationship between chronic irritation and tumor growth. It was shown experi mentally through double vaccination that the dif ferent mode of growth of the transplanted tumors whether progressive or not depended mon the changing ability of the tumor cells to pyreome obstacks to its growth in the bost and on the other hand on the sensibility of the tumor cells to this obstacle. The histologic examinations of the site of Varianation in normal and immunized animals shows as an explanation of immunity, the inability of the tumor cells to produce the characteristic effect on the connective tissue and vessel cells of the immunized animal. It follows that the tumor cells have inherent characteristics which are important ones and that the tumor cells themselves must be atta Led STANDER

Thellhaber The Prophylaxis of Carcinoma (Dec Pr phylaxe der (aranoma) il ien blin il ekniskr

By Pentralbi I d ges Gynal u Geburtsh s d Grenzgeb The author considers marked atrophy of the subepithelial connective tissue with diminution and stenous of the blood vessels as prerequisites for the development of carcinoma Trauma inflamma tions and surs cause this pathological condition of the connective tissue The best way to avoid tumor growth in such cases is by massage cupping hot air and diathermy. This is especially applicable in recently operated carcinoma as a presentative for a reappearance of carcinoma in the scar Many growths occurring after operation are new cancers which arise from the siar because of the fruitful condition of the site for such growth. Any epithehum which might chance to land in healthy connec tive tissue would be absorbed at once while in atrophic tissue with stenosed vessels the enthelial cells would have an opportunity to proliferate and develop into a carcinoma. Hyperæmia produced by any of the above mentioned methods is not harm ful but on the contrary makes small cancer berds harmless A lengthy work on the subject is to anpear soon

Gould The Treatment of Inoperable Cancer.

I ancet Lond 1913 (luxiv 215

By Surg Gynec & Ohst

In the general treatment of cases of moperable cancer the author urges the importance of mental and physical rest and thinks that the hospital treat ment is of great value to them. He ways the pittent should be informed of the exact condution and thinks that the hospital treat should be informed of the exact condution and thinks are should be informed of the exact condution and thinks are should be informed of the exact condution and thinks are should be informed to the exact the e

seemed to do great good. He attaches great importance to physical rest In cancer of the mouth, a mouth wash of sanitas and water in the proportion of 1 to 2 dr in 5 uz gives good results loose teeth should be extracted and the removal of sloughs and sequestra is often followed by consider able relief. In uterine cancer the frequent careful use of non irritating antiscptic douches is recommended. For cancer of the rectum where colotomy has been done, the washing through of the bowel from artificial to natural anus should be regularly carried out whenever it is possible Txternal cancer may be kept in a cleanly condition by the use of antiseptic lotions ointments and dressings, in other cases the use of X rays will be found very beneficial in cleaning up extensive and foul can cerous ulcers. Diet should be simple easily di Ucoholic stimulants of all gestible, and varied. Alcoholic stimulants of all kinds are as a rule to be avoided for anything approaching a free use of alcohol adds greatly to the activity of the disease. Opium and its derivitives should be used as sparingly as possible given to many of the patients phenacetin to others It is most important for the comfort of these pa tients that the bowels should act regularly every day, or at most every other day

To sum up their the general treatment of late cancer should consist in the avoidance of all fritigue, strain and worry the observance of strict cleanliness, care and moderation of dut the proper regulation of the bowles, abstince from stimulants, and the minimal use of opium and its derivatives consistent with the reasonable comfort of the na

tient

Palliatine oper inter measures. In the authors expensive, gastrostomy is a most valuable procedure in cases of malignant stenosis of the guilter. The patient may recover some of his last power of for years, and the patients are sparred the patient of other processing the patients are sparred the patients of cost in from startavition. He employs a rubber cathe ter, No. 18 English scale. He is in favor of collisionly for irremovable cancer of the colon or rectum when there is marked obstruction, severe pain connected with the passage of motion over the growth. It should be from the processing from the growth. It should be from the growth a favor of the processing the process

Cystostomy for cancer of the bladder or prostate is sometimes of value. It is especially indicated where the growth bliceds and clots are passed with sext difficulty and pium and where microarrison is great difficulty and pium and where microarrison is greated by the control of the control

tumor, afforded by decompressing operations is well known. In Gould's experience the operation of lymphangioplasty has been a disappointing procedure and he doubts if it is worth doing

Under non-operative measures he says that he has not had any success with Coley's fluid nor has he seen any case where it has effected a cure in what was known to be a case of malignant disease Gamma radiations produced by the X ray tube or by radium can undoubtedly inhibit cell growth and they seem to have a special power over cancer and sarcoma cells, and more than this they have the power of destroying malignant cells. He speaks very favorably of these radiations and reports several treated by this method particularly by radium By the use of A rays in cancer of the breast he has seen foul ulcers cleaned some ulcers have bealed up entirely, he has repeatedly seen small secondary nodules in the skin and fascia disappear he has had several cases where larger and dieper secondary growths involving muscle ribs rib cartilages, or sternum have disappeared and in other cases such growths have remained stationary and quiescent for such long periods that he could only think the radiations had had at least an inhibitory influence on the growth D C. BALFOUR

hafemann The Non-Operative Treatment of Cancer According to the Principles Observed in the Hendelberg "Samariterhaus" (De mittoperative Bhandlung des Krebses nach den Grundsstam des Hendelberger Samariterhauses) Hed Klut 1913 v. Chr.

By Zentralbl f d ges Chir u i Grenzgeb

On the basis of his studies and his personal experience in the Heidelberg Simiriterhaus" the author reviews the present state of the non opera tive methods of treating cancer. Of those employing chemical cruterization he gives special attention to Zeller's method. He recognizes the surprising effect of arsenic cinnabar pasts on superficial tumors. curumomiti sarcomata and lupocurcinomata but does not share Zeller's optimistic opinion that even deep sexted tumors may be cured by this method In this connection he points out how life may be endangered by the hamorrhages which would result from the crossons of the vessels by an agent which, like the one mentioned indiscriminately destroys the tissues. The methods which employ silicic acid so far have not produced any appreciable results nor have the toxin treatments done so Among the latter the old streptococci toxin of Colev has proven the most effective but it has hid to be given up on account of its dangerous by effects Antimeristems Doyen's as well as Schmidt's the author declares have no effect whatever still undeveloped chemotherapy for which Wassermann s seleneosin treatment laid the foundation is steadily progressing and promises well for the future A detailed description is given of the cholin seleno vanadium treatment Curative effects have even been claimed for salvarsan especially in sar-

The author expects good results from a combination of maximum notency radiotherapy with salvarsan, cholin seleno vanadium, and thorium X For that reason he urges postponement of operative removal of important organs, except in urgent cases, until this method has been given a trial Among the physical methods of therapy, the treatment with A rays has not fulfilled optimistic expectations, whether used alone or in combination with injections of adrenalin or fluorescent substances The same must be said of its combination with stimulation by short circuit sparks or with high frequency currents These methods, like radio therapy and the frequently even more effective mesothorium therapy, do produce results in many cases of superficial and protruberant tumors, but they fail almost completely with deep seated tumors Good results are claimed for the intravenous and intratumoral treatment with thorium-X, its action however is not indifferent. The author concludes that, now as eyer, the rank of prime importance must be assigned to timely operation where it fails, or in combination with it, he demands non-operative treatment according to the method which is applicable to the individual case HOCHHEIMER.

Simpson. Growth Centers of the Benign Blastomata, with Especial Reference to Thyroid and Prostatic Adenomata J M Restarch, 1013, 3291, 369 By Surg, Gynec & Obst

The material for the author's unders consisted of 75 thyroids obtained at authory, without read of 75 thyroids obtained at authory, without read against active found in 80 per cent of the cases Simpson states found in 80 per cent of the cases Simpson states that it is his belief that if one were to make serial sections of all thyroids found in this region after the age of puberty (Freburg in Breis gau), they would find these adenomata in nearly

every case. Its continues the strumn nodous as a true tumor. He concludes the strumn nodous as a true tumor formation, that the vanous forms described are different tumors. He believes that these degenerates the strumors. He believes that these degenerates the strumors that the believes that these degenerated it, that these added the strumors are the proposed as the strumors are the strumors and therefore the strumors are the strumors are the strumors and the strumors are the strumors are the strumors and the strumors are the strumors as the strumors are the strumors as the strumors are the strumors and the strumors are the strumors.

growth centers in necessary to the postate adenomate the author finds in reviewing the literature a great diversity of most in reviewing the literature a great diversity opinion regarding the genesis and pathological anatomy of the condition commonly called postatic hypertrophy. It would appear that the more recent investigators are in accord with the view that recent lawestigators are in accord with the view that the condition is a new growth. The authors material for this study consisted of 45 prostates obstanced at autopsy, ranging from 7 months to 79 obstanced at autopsy, ranging from 7 months to 79

years of age
The fibro adenomata of the breast and myomata
of the uterus were likewise studied. In these breast

tumors, as in the prostatic adenomata, the tendency of the interstitual connective tissue to undergo degenerative changes was not marked, but the author found atrophic epithelia cells surrounded with fibrous tissue which, in comparison with the connective tissue in other parts of the same nodule, is extremely poor in nuclei. These areas the author considers the growth centers, and in rare cases one

mys find evidences of degeneration. In the more rapidly growing my omata one finds, at these centers evidences of more rapid change via cedema fatty metamorphoses, circumserabed necrosis, with a subsequent tendency to calcification and the control of the tumor of the control of the tumor of the "growth center" as it has been designated or the "growth center" as it has been designated or the "growth center" as it has been designated or the control of the tumor of the "growth center" as it has been designated or the control of the tumor of the "growth center" as it has been designated or the control of the tumor of the "growth center" as it has been designated or the control of the control

GEORGE E BEILBY

Oser and Egon The Significance of the Spleen During the Growth of Malignant Turnors, and the Influence of Splenic Pulp on Turnors (Veber die Bedeutung der Milz in dem an Malignant Turnor Likrankten Organisms und die Berendissung von Turnoren durch Miltzbrei) Zitch f exp Pathol ut Therap 1013 XII 2020

By Zentralb! (d 'ges Gynú' u Geburtsh s d Grenzgeb Destreche explanas the involvement of cartage and wessel walls in tumor growth by the presence of chonfronts sulphunic acid. He had hoped much use of this first in combating the growth of tumors. Redel mide antitumon under his direction, haman constituent of the preparation being solum hondroutin sulphate. Obstrech claims to have had good results with it especially after tumor onerations.

The authors tried it in hopeless cases and after operations. It was injected intransucularly to 8 weeks in 6 cases of carcinoma of the breast recurring after operation 2 scrittous tumors of the mamma and 2 carcinomata of the mouth and one of the tonsil. The results were very unsastsaction, in no case was there a cessation of the growth or a regression of the metastatic tumors. The patients complianted of pain in the tumor for an hour or so after each innection.

after earth option so only rarely affected by malg anny. Brainnessen experimented with a patie from twhich he injected into animals afflicted with can cer. He came to the conclusion that the spleen had a high degree of immunity. Animals from which he spleen was removed 3 to 4 weeks before the experiments were begun showed a more rapid de velopment of tumor issue than the control animals required to the control animals grew with exceptional rapidity under similar conditions. Normal cats injected with tumor cells were

In another series of experiments the influence of injected splenic pulp on sarcoma was studied. The spleen was removed from rats that had received inoculation with sarcoma cells 14 days previously, and in which the tumors were the size of walnuts.

used as controls

The spleen was inturated with normal salt solution and injected hypodermically into other tumor rats. Various tests were performed, and the results showed that the tumors of splenectomized animals grewing the splene tumor spady. The injection of the splenic pulpinto sarcomatous rats caused a regression or arrest of the growth. The tumors did not get a start in rats which received the injection of spleen pulp at the time the sarcoma was incolutated. There seems to be an antibody developed which is not present in normal blood.

Noyletsvi

Babcock: Superficial Metastatic Growths in the Diagnosis of Deep-Seated Malignant Tumors. N 1 M J, 1913 xcvn, 100 By Surg Gynec & Obst

When a malignant tumor is discovered in the body it is customary to look for metastatic growths along the efferent, lymphatic and vascular paths At times the malignancy of the primary growth is then proved by an exploratory operation author suggests a reversal of this customary procedure, urging that in suspected deep seated malignancy search should first be made for super ficial metastatic nodules and if any new growth of the skin or subcutaneous tissue he found, it he excised under local anasthesia and microscopically examined before an exploratory operation upon the primary tumor is considered. The reasons advanced for this method are (t) The accessibility of the metastatic growths, (2) the lessened danger of hæmorrhage, infection tumor dissemination, or leakage from a hollow viscus, (3) the essence of malignancy is focalized in the metastasis

The proof of metastasis and a fresher and more accurate picture may be found in the secondary nodule than in a degenerated primary growth Illustrative cases are given in which the nature of a brain tumor was shown in a localized papular eruption of the overlying scalp, obscure careinomata of the stomach and thorax were proved by examination of supraclavicular nodules, a mesenteric nodule removed during an appendectomy showed the presence of a symptomless carcinoma of the stomach. a rapidly growing nodule over the lower thorax was the only definite outward indication of a small carcinoma of the sigmoid, and a dispute as to the nature of a lingual growth was settled by the examination of a cervical nodule. In malignant tumors of the liver secondary growths may be found around the umbilious and all surgeons are familiar with the bluish or reddish macular or papular eruptions upon the skin overlying tumors of the breast which usually indicate an inoperable type of mulignancy

In many cases no other test or simple diagnostic method reveals as much as the positive evidence obtained by the microscopic examination of the superficial metastatic nodule. On the other hand, purely negative evidence of course, does not disprove the presence of deep seated malignancy.

Küttner: Circumscribed Tumor Formations Caused by Abdominal Fat Necrosis and Subcutrineous Splitting of Fats (Ueber cruenscripte Tumorbilding durch abdominale Fettnekrose und subcutane Fettopaltung) Borl kin Wehnich, 1913, 1,9 By Zentralbi f d ges Chir u i Grenzgeb

Author reports three observations which are important from the standpoint of the pathology of the fatty tissues Circumscribed abscesses in abdominal fat necrosis are not uncommon, but circumscribed tumors such as the author describes in two cases had not been reported before

In a corpulent woman, 56 years old, who was taken sick with severe and repeated abdominal symptoms there developed a large, hard, round tumor the size of a child's head on the right side of the abdomen, which because of the history was regarded as an infiltration due to appendicitis the langrotomy this proved to be a conglomeration of adherent loops of intestine, which with the adherent omentum surrounded a cavity filled with necrotic fatty tissue and onaque fat droplets appendix was entirely intact. The cavity was emptied and tamponed and healing resulted. The microscopic examination showed the content of the cavity to consist of pecrotic fat tissue, cells contain ing fat droplets, and a few round cells. Neither eggs not tumor cells could be found Bacteriologic examinations were negative

Case 2 was that of a 45 year old stout man who complained of chills and high fever with pain in the region of the liver and stomach that radiated to the right shoulder and right arm. He was constipated and passed no gas The next day a tumor developed in the gall bladder region which was sensitive to pressure This was soon followed by icterus and a half months after the disease began, an elongated hard tumor was found in the region of the gall bladder which was regarded as a tumor of the gall bladder. At operation it proved to be a tumor of the omentum which on cross section had a peculiar appearance and seemed to be composed of necrotic fatty tissue. Microscopic examination corroborated this diagnosis Gallstones were not In the region of the pancreas and in the abdominal cavity nothing pathologic could be seen In Case 3, which was of an entirely different etiological origin we have to do with a tumor formation in the breast produced by a change in the fat tissues A 63 year old woman received a blow in the breast A few weeks later she discovered at the site a nodule which on examination appeared in the lower quadrant as a hard fixed tumor the size of a nut operation it was shown to be a tumor of the sub cutaneous fatty tissue and was not connected with the glands. The fat had the peculiar opaque appearance and consistency which was characteristic of abdominal fat necrosis Microscopic examination showed a characteristic grant cell granuloma The grant cells were arranged radially about collections of fatty acid crystals. There had been a splitting off of fatty acids from the fat and a chronic

inflammation in the tissues. Whether the fat splitting was primary and caused an inflammation of the tissues or whether a primary chrome inflammation of the connective tissue led to a secondary splitting of the neutral fat rould not be determined although the preture of the foreign body agant cells pointed more to a primary fat splitting with secondary inflammation. A relationship be tween this process and the trauma appears likely Noytery.

Sample and Gorham Malum Perforans in Diabetes Mellitus, a Report of Seven Cases Bul Johns Hopkins Hosp 1913 XVI 18

By Surg Coner & Obst

At the request of Prof. Barker the authors have made a study of the clinical aspects of malum per forans as a complication of diabetes mellitus, based upon the findings in seven cases admitted to the Johns Hopkins Hospital I wo of the cases were studied by the authors personally and the details of the others were taken from the hospital records Their study of these cases still left the etiology of the condition in doubt. While several authors believe that the ulcer depends upon changes in the peripheral nerves. Sample and Goth im are inclined to argue against this view from the fact that in these cases the sensory disturbances were shight and further the ulcers did not present the same picture as that seen in known forms of chronic neurities The mechanical factor they believe has some etiologic importance as that due to constant pressure exerted on certain parts of the feet in walk ing or standing. In fivor of this theory is the marked improvement which in some cases follows upon rest in bed and removal of the pressure to probable however that the mechanical factor to nothing more than a contributory cause third theory offers vascular change as the primary cause of perforiting uker but in the majority of cases here reported no arteriosclerosis or only a slight grade exists in the vessels leading to the part affected Indarteritis obliterans must however be borne in mind. The view that the true cause lies in a disturbance of tissue vitality due to the existing hyperglycæmia scems i rational one a result of this lessened tissue resistance one might well explain the frequent appearance of furuncles carbuncles, and gangrene The initial lesion is often in the form of a small vesicle which later develops into an ulcer or the process may take its The condition may origin from an infected corn be superficial limited to the skin and subcutaneous tissues or it may extend more deeply involving bone or cartilage, or opening into a joint metatarsal phalangeal joint is a favorite seat for

Proescher, Etlology of Rabies \ 1 M J 1913 xcvii 15 By Surg Gynec & Obst

GEORGE E BEILBY

Microscopically visible organisms appearing in two forms, coccus and bacillus were found by the

such a pathological change

antiformin method in the brain, the nerve ganglia and salivars glands of rabid animals

Their etiological relation to rabies was demonstrated by the production of typical rabies in rabbits injected intracerebrally with the antiformin sediment of fresh bruns from rabid animals

Owing to the rather difficult technique employed in the antiformin process many experiments with amilin dyes were tred to damanstrate mixto organisms by substitutive starting. Methylenazur alone in the form of the erishy dissociable methylenazuriarity will stain the rather virus. It will stain the entire life cycle of the sinus including and the properties of the sinus the data with a single many techniques and thorn with the antiforming mixto which was not shown with the antiforming mixto which was not shown with the

The spirochate f rm will satisfactorily explain the route of infection of the rabies virus which travels along the nerve fibers. The spirochate and bacilli forms develop from the cocyclom

The efficiency of the staining method was tested by staining the fixed virus from different Pasteur institutes the same micro organisms being found in all stains

Watson The Vegri Bodies in Rabies J Exp Med,

Watson concludes as the result of a large amount of hatological work that the Vegru bodies are the titological agent in raises and that they present two general types or plaxes in morphology in growth general types or plaxes in morphology in growth stanth sydie in their development and correspond to a multiplastation or schizogenous and correspond to a multiplastation or schizogenous and to a reproductive or sporegonous life cycle. Watson is inclined to believe that the Vegri bodies are definite protozona parasites and from a study of their life of the sporegon, in in the gar light sport of the sporegon of the sporegon of the sporegon.

Risley Shock A Review of the Theories and Experimental Data to Date Boston M & 5 J 1913 clavin 112 By Surg Genee & Obst

We citly as 1508 the phenomenon of shock was recognized and was supposed to be due to a foreign body in the wound or blood. From that time down to the present there have been a great many theories most of which have been proven false. As the problem stands to day there are several contradic tory theories which are all pretty well based on experimental evalence.

Link maintuins that vasomotor exhaustion is the primitive russ. Bosy thinks that cardine exhuit tion is the prime factor whereas Howell believe eithat both cardiac and vascular changes are at fault kinnemin considers of disturbance of thermogenetic functions as the chief chiment and Henderson a reduction of the carbon dioxide content of the blood and tissues (accupiera).

Shock is a 'condition induced by fear exposure infections or trauma in which there is exhaustion of nerve cells principally those of the vasomotor centers but also probably to a much less extent of other centers in the medulla, such as respiratory and cardiac, and consequently lowered vascular tone and cardiac and respiratory depression of so even a

degree as often to result in death "

Malcolm of London believes, from a clinical standport, that it assembler exhaustion is present their about the arrivation of the peripheral arteroles and an overfilling. As a matter of fact all clinical evidence speaks against such an overfilling, as the body is cold and champy, the mucous membrase are anseme and incisions during shock are almost bloodless. Crit however explains this condition by sying that the blood in all probability has already Bonet through the thisted "stratioles and has collected in the deep veins where it is demonstrable other death.

Liebig and Lyon working on vagi by electrical stimulation prove that visomotor exhaustion does not occur in shock, but rather vasoconstriction. Their work however, is limited to one class of experiments and does not prove alike for all kinds of

surgical trauma and shock

The theory of Henderson is that the underlying cause of shock is a decrease in the carbon district content of the blood and tissues and an over-oxygenation, a condition called scapnera. This robs the respiratory center of its normal stimulus, and spontaneous respiration crosses. If the acapinea is intense respirations may cease for so long a time that the heart finally stops beeting because of lack of oxygen. With acapinea there exists a fall in a set in a sleen shown that the tomorty of the blood visible is in direct proportion to the carbon disorder content of the blood.

Crile's work on shock is probably more exhaustive than any other He believes the essential factors to be considered in surgical shock are trauma the anasthetic, a primary rise with a following fall in blood pressure, decrease in body temperature and vasomotor inhibition, paralysis, and then exhaus In addition to these factors, more recent experiments of Crile have shown that there are histologic changes in the nerve cells of an animal which has been subjected to shock. These cells stain faintly and indistinctly and show degenerative changes Crile goes further and states that there is strong evidence to show that traumatic influences which damage the nerve cells of the cerebral cortex are not prevented from acting upon the nerve cells even though the patient be under a general anasthetic This evidence has led to the elaboration of Crile's anoci association theory and the inclusion of nerve blocking in his operative technique

FAMES H SKILLS

Marcuss A Case of Muscular Dystrophy after an Accident (I ali von Muskeldvstrophe nach Unfall) Monatsch f Lnfallh u Intal il er 1913 rx 18 By Zentralbi f d ges Chir u 1 Grenzgeb

A brakeman, 20 years old suffered from a severe bruise of the left upper thoracic wall. He developed a traumatic pneumonia, from which he re-The muscles of the shoulder and breast soon started to atrophy This gradually affected After 31/2 years, the muscula the whole left arm ture of the right shoulder also started to atrophy It was evident that this case was more than an atrophy due to injury It was diagnosed as juvenile muscular dystrophy The relation of the injury to the disease is difficult to perceive. The nationt was apparently strong and healthy before the accident According to Marcuss, however the patient may have had a beginning muscular dystrophy at the time of the accident and the trauma may have activated it

Carrel Artificial Activation of the Growth in Vitro of Connective Tissue J Fxp Med 1913 xxn 14 By Surg Gynec & Obst

Carrel has studied the effects of issue entriets on the rate of growth of connective itssue in vitro and finds that extracts of issues and issue pueces under certain conditions accelerate the growth from about three to forty times. This activating power is found in many itssues. It is much more marked however in the extracts of embry os of induit splices and of the Rosu sarroma. The power deminished directly with the dilution of the extracts and appeared not to apply to the lices, of a heterologous peared not to apply to the lices, of a heterologous of the extracts of the extracts and apsected in the extracts of the extracts and apsected not the extracts and apsected peared in the extracts and apsected in the extracts and apsected peared in the extracts and apsected peared in the extracts and apsected in the extracts and apsected peared in the extracts and appeared not be extracted and accelerate the extracts of the extraction of the extracts and apticulated in the extract and apticulated in the extract and apticulated in the extract and apterior the extracts of the extract and apterior the extracts of the extract and apterior the extract and apact and a

JAMES F CHURCHILL

Dilger Tessue Cultures of Grown Animals in Vitto (Ueber Gewebskulturen in vitro unter besonderit Berucksichtigung der Gewebe erwachsener Tiere) Beutsche Zisch J Chr. 1913 (23x, 243 B) Zentralbi I d ges Chr. v. i Grenzgeb

Dilger in his work questions the results of Rurrows and Carrel in their experiments with tissue cultures He wonders whether there was any actual growth in the cultures of Burrows and Carrol Does genuine budding and cell division occur or is the change uni form in the whole tissue or is there any real organic change? An active growth of cells is said to take place in such tissue cultures 1 transformation of round cells into spindle cells had been observed in cultures of embryonal tissue Nerve and mesenchymatous cells of chicken embryos show the greatest tendency to growth On the contrary no growth of tissue takes place in healing wounds of visceral organs For example the formation of parenchymatous tissue in the splicen in case of wounds of that organ never takes place The regeneration of functional renal tissue in scars of the kidney never occurs

It is essential according to Dilger to know the age and kind of animal the tissue is taken from Careful tabulations of the age of the animal were lacking in preceding articles on the subject. Carriel and Burrows observed an increase of volume in their mic Laboratory and Ha and Hb isolated from the sput a of two patients all with tuberculosis, were used for the moculations | The results of the experiments are far too exhaustive and technical to allow of summarizing but in the main it is clear that the evidence furnished by the various series of experi ments demonstrated the fact that sensitization of tuberculoprotein had definitely dimished the resistance of the animals to infection with living bacilli of the human type. Mindful of the fact that tuberculous animals, though immune to reinfection with small numbers of bacilly, are less resistant to reinfection with larger numbers of the organisms a second series of guine a pigs with parallel series of control animals were injected with similar doses of the strain of tubercle bacilli used in the preceding experiments. The findings in these are a confirmation of those already noted. Although the infect ing doses of tubercle bacilli were small, the already sensitized animals showed more extensive disease than did the non-sensitized controls which are relatively insusceptible to infection of the human type of tubercle bacillus were used also in a second series of inoculations and the results were unique for so far as the author has been able to determine an acute lethal tuberculosis had not previously been produced in rabbits with a small infecting dose of human type tubercle buillus Several of the sensitized rabbits used developed a clinical picture described by Theobold Smith in rabbits inoculated with the bovine type of the organism I ight of the sensitized animals develop ed dyspness and five died from tuberculosis within 67 days after inoculation In five sensitized and in two control animals tubercles developed at or near the site of the intravenous inoculation

For the present the following conclusion scems justified. Hypersensitiveness produced in guinea pigs and in rabbits by sensitization with a protein obtained from the bacillus tuberculosis human type by water extraction exerts a bineful or a neutral influence on a subsequent tuberculous infection Whether or not a similarly produced condition of hypersensitiveness would influence differently the course of infection with a very few organisms can GLORGE L BEILBY not be stated

Hartoch: The Rôle of Albumin in Anaphylaxis (Ueber die Rolle des I iweisses bei der Anaphylaxie) Petersb med Zische, 1913 XXXVIII, 1 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author discusses the question of anaphylaxis and gives the views expressed by various workers in this line to explain the cause. It is a question what form of albumin causes the trouble authors believe it to be due to the peptones and others to diamino acids The author then attempts to explain the infectious diseases by over sensitive ness, on the part of the individual, to the albumin formed by the bacteria During the incubition period the corresponding antibodies develop When these combine with the antigen, by aid of the comple-

ment toxic products are produced from the bacterial albumin the action of which causes the symptoms of the disease. He considers anaphylaxis the increased power of the organism to digest and neutral ize the corresponding parenteral living bacterial albumin as well as the cause of the disease. Anaphylaxis is a preliminary stage of immunity

Dale The Anaphylactic Reaction of Plain Muscle in the Guinea Pig. J Pharmacol & Ixt Therab. 1011 11, 107 By Surg . Gynec & Obst

This is a description of an original piece of work In the introduction the author enumerates the hypotheses concerning the causes of anaphylactic shock in the guiner pig. He notes the theory of sessile receptors and explains briefly the more recent view of the action by a poisonous product of partial proteolysis either through a specific ferment or other digestive action. Because of certain objections to this ferment itive action. Dale notes two main ques tions at issue, first does the reaction take place in the circulatory fluids or in the responsive tissues, and second is the shock due to a physical change or to the production of a poisonous digestion product

To answer the first question the author points out that it suffices to isolate muscle and free it from body fluids. He mentions his method and states that he selected for his experiments the uterine horn from a vergin guinea pig emphasizing that it is necessary to use very small and slender uteri He states at the outset that his method of procedure differs from that of Schulz who previously made somewhat similar experiments and whose work and conclusions he discusses fully Schulz regards the anaphylactic reaction as an exaggeration of the nor mal response of plain muscle to large doses of native sera or other protein containing bodies and Dale believes that Schulz is confusing two distinct though similar phenomena namely the toxic action of large doses of fresh sera and other proteins and the specific action of minute doses of the sensitizing protein on the sensitized animal

A number of tracings are given and clear descriptions of the same. The non action of sera or proteins other than the sensitizing one is graphically shown and of particular interest is the immediate and marked response to the latter substance the action occurring with as hitle delay as that of drugs applied under the same conditions. A dilution of I in I 000 000 suffices to give a definite though not a maximum response

Some experiments were made showing the effect on the anaphylactic muscle of repeated dusts of the sensitizing substance These show that a single dose if it will cause a maximum response will remove completely the sensitiveness so that later doses are without effect provided that non toxic preparations or doses below those having in action on normal tissues are used. This process of de sensitization probably corresponds to the antianaphylaxis of the whole animal

If has been shown by previous investigators that guiden pix may be anaphylactic to three proteins at the same time, and that a non fatal injection of one of the antigens leads to antianaphylaxis to that one alone with subsequent typical reactions to the others. Dale's observations lead him to point out that a guinca pig receiving small simultaneous in experions of several different seria acquires to none of them the high degree of ansitiveness which might be predicted from the injecting of any one above. He suggests that a more extended incubation period and the contraction of the contraction of the product of the contraction to one antigen is not wholly without effect on the sensitiveness to others, though there is some degree of independence.

In animals immunized to horse serum Dale town confirming other experimenters that such immunity may occust with a well marked supersensitiveness of plain muscle but that the specificity is qualitatively not quantitatively the same also that with time there is a gradual desensitivation of the tissue of the immune animal distinct from its

protection by circulating antibody

Guinea pigs may be passively sensitized by the injection of serum from an animal made actively anaphylactic or by injection of serum from im-This sensitization is not imme munized animals diate, 24 hours perhaps less, being an average inter-The time to produce anaphylaxis has been considered that interval necessary for fixation of specific antibody to the tissues Dale's problem here was if this view is correct to show sensitive ness in the uterus of such a passively sensitized guinea pig. His experiments show that this was actually present and that such a muscle could be desensitized by the first dose but that the sensi tiveness of the muscle of such a passively sensitized animal was not as marked as that from an animal made actively susceptible He also made the obser vation that after desensitization it is possible to effect a passive sensitization of the uterus in vitro, and that the first subsequent dose desensitized the muscle This experiment was done with the uterus of an animal actively and one passively sensitized A normal uterus soaked in a solution of horse serum did not give the decided sensitization By perfusing the organ with a solution of such serum a result was obtained after about five hours which suggested strongly those reactions obtained from muscle taken from sensitized animals including the desensitiza

On the period which must elapse before sensitization could be detected. Dale found that the sus ceptibility occurs first between the sixth and eighth day after the sensitizing injection and increases rapidly up to the twelfth day

There are various features of anaphylactic shock in guine; pigs observed which seem to be unrelated to the effect on plain muscle. By a sense of nicely controlled experiments Dale attempted an explanation of the death. He concludes that, for the immobilization of the lung, or as previous writers have

stated it, a value-like closure of the bronchioles, which is the cause of death of anaphylactic guinea pigs, there is no necessity for assuming any other than the immediate action of the antigen on the sensitized muscle Wartze H Bunito

BLOOD

Yatsushiro An Experimental Study of Fmigration of Leucocytes in Inflammation (Lypermentelle Studie uber die Imgration von Leucocyten bei der Entzundung) Frankf Zischr f Pathel, 1913 zui 80

By 7entialbl f d ges Chir u i Grenzgeb

By a series of experiments, the author has demon strated the unternability of the physical theory of leucocyt, emigration and has furnished the proof that chemotaxis of itself is a sufficient explanation of this phenomenon. Leen the assumption of a primary injury of the vessels was proven untenable, causing the fall of the last prop of the physical theory.

By the employment of an agent alcuronate, which has only chemotactic action, the author was able to produce emigration of white blood corpuscles and to trace them through the wall of the vessel. from the venous lumen to the surrounding tis sues let the phenomena which in inflammatory processes accompany emigration of leucocytes did not appear In these inflammatory processes emigration is always associated with dilatation of the small veins and capillanes and resultant retardation of bold circulation increase in blood pressure and exudation. In the author's expert ments these phenomena by which the physical theory explains emigration were absent. On the contrary instead of dilatation of the vessels, which is regular in inflammation, the wall of the vessels showed collapse even though slight at many points where it had been touched by the alcuronate retardation of blood circulation is of itself rejected as a causal factor of emigration

The confinement of feurocyte emigration to the area treated with aleuronate is proof that a supposed increase of blood pressure cannot come into consideration as a cause of emigration for an increase of blood pressure within so circumscribed an area is unthinkable under the hydrodynamic law

In a second sense of experiments in which the author did not employ alcuronate but confined himself to exposing the walls of the vessels, the analogous phenomena of emigration reapperted. This therefore, further substantiates the argument in favor of the chemotactic theory, as it is impossible, on this case to point to any modification of blood or curvations, while in the first sense of experiments or curvations, while in the first sense of experiments or curvations of the alcuronate as barrier possible. The outcome of the alcuronate as barrier to the contradicts the other theory thus is furthermore contradicts the other theory these furthermore contradicts the other theory the contradicts of the other theory the contradicts of leucoxie emigration.

The experiments were all performed on one of

the spleen with hyserplass and hypera mia, slight enlyrement of the liver without pathologic cleange, in its parenchism or bile pissages, non pagment on the parenchism or bile pissages, non pagment on the parenchism of the properties are min, a blood picture of sconding arm in without nucleited role against a strong arm in without nucleited role again the pagment of the pagment of large and clils which were probably quite young red cells, and also knowcytoss.

Minkowski considered that the whole process depended upon a primary lesion in the spleen that the blood cells were destroyed there, and that auundic came from increased pigment in the blood

stream from destroyed red blood cells

Chaufard had observed that the red blood cells were not so resistant to hypotomus sodium chloride solutions as were those of the normal individual leads observed that when a stain such as Unna's polychome methylane blue were dropped onto the shan and the blood obtained from a prick through the drop so that the cells showed a currows attending the control of the co

The urine contained urobilin but no bile pigments.
The stools were normal in color. They often had attacks of gallstone colic but many were operated.

upon and no stones were found
The authors present a detailed study of their one
case. It was similar to those described by Min

kowski and Bettman

The splien is generally thought to be the seat of
thi trouble and the authors believe that splienecto
my should result in its amelioration

FLOYD RILEY

Gelssier Concerning Blood in the Spinal Fluid (Leber Blut in der Spinaldussigkeit) Munchen med Wichnicht, 1913 It, 121
By Zentralbi f d ges Chir u i Grenzgeb

The examination of the blood tinted fluid not un commonly presents great difficulties when one en dervors to discover the source of the bleeding Before proceeding to an interpretation of the pres ence of blood it is necessary to make sure of an exclusion of artificial hemorrhage due to puncture of the venous plexus. In artificial hemorrhages the outflowing liquid loses its discoloration after a few cubic centimeters of it have been shed and the blood quickly congulates if the liquid is gathered in a test tube In pathological infusion of blood on the other hand, the blood corpuscles are precipitated If the blood in the drained bound as a sediment congulates and if the fluid drained some time later still remains tinted, we must assume the presence of a fresh pathological hamorrhage upon which a further artificial hamorrhage has supervened with out, in this case being of any significance following possibilities come into consideration

The presence of blood may be caused by injuries (fractures of the base of the skull) or by inflammatory or neoplastic processes affecting the menings, provided that there has hen a lesson of the archnoid spart from these destructive changes processes which produce a diminition for the area of the spant cannt and thereby lead to stass of the liquid in the caudial section may class of the liquid in the caudial section may class of the liquid in the caudial section may class the dispersion of the liquid area of the liquid same strong the scrief from deep red to yellow are may draw approximate conclusions with respect to the age of the blood indison, a yellowish color will indicate an old hymorrhage. The degree of color also permits of certain other conclusions, such incompanies of the conclusions, such ince processes (tuberculous), tumor, lues) or simply by changes that led to physical displacement.

2 A pathological content in the spiral fluid may occur together with one of artificial origin. If the first portion of the liquid druns of slowly, without high pressure and coagulates more quickly than a later portion which flows out under a steady high pressure we must assume both pathological blood content and an irthical flosion of the venous becaus.

3. The older the bemorrhage the yellower will be the into the layud this is known as zanthochromy, and points to a hemorrhage that has occurred some time bit. It is not necessary to say the week must hive passed is necessary to say the week must hive passed is necessary to say the chromy, and case it could earlier be shown that the yellow tint had appeared within one week. Xan thechromy has been observed in connection with hemorrhages of various entology, and also in tuber culous menungitis and pelipsey. The change to the culous menungitis and pelipsey. The change to the ment of the blood the details of which are still a matter of dispute the control of the blood the details of which are still a matter of dispute.

Milne Anæmia Caused by Hæmorrhage (Ueber Blutungsanamie) Deutsche Irih f klim Med 1913 civ 401

By Zentralbl f d ges Gynāk u Geburtsh s d Grenzgeb

Artificial hymorrhage was performed on 24 rabbits and 6 cats in order to determine whether a typical form of anamia could be produced and to observe whether the regeneration takes on a form other than that in the toxic ana mias as reported by Hans Ritz Morowitz and Mever The hamor rhages were performed daily or at longer intervals The hemoglobin reached the normal more slowly than did the erythrocyte count Two to three days after the hamorrhage there were nucleated reds and bisophilic erythrocytes present. If the bleed ing was stopped for some time, the latter cells would disappear in most cases The granular basophilic erythrocytes are therefore not characteristic for toxic The granulation is probably due to particles of chromatin from the disintegrated nucleus When the anemia was not very pronounced only

scant regeneration of blood elements occurred in liver, spleen and kidney In extreme anxima (ergitheocytes below 2,000,000, harmoglobin below to per cent) homamia (4 to to per cent) occured. The fat stained black with ether and osmum In such cases faity militation of the organs has quite pronounced. The liver showed extreme faity degeneration and central necrosis which is probably also due to the insufficient outdation. Practically all of the chiracteristics of toxic anarmia can be treproduced by harmorthage.

Franke Hæmophilia and Its Treatment with Rhodalcid (Leber Hamophile und ihre Behandlung mit Rhodalcid) Deutsche zerhadreil ikehnscher, 1913, x, 65 By Zentralbi i d ges Chir u i Grenzgeb

In a case who presented hamophilia, I ranke prescribed rholialed to be taken for a wick or two, one tiblet two to three times a day before be extracted a tooth. Bleeding after the extraction was slight and of brief duration. I ranke then had the patient take rhodsled for a whole year following Dipplearant by effects were not to be observed. On the contary, the general conduition of the patient showed a marked improvement. Here we have a simple of the processing the p

BLOOD AND LYMPH VESSELS

Sabella Phlebitis in Typhold Fever (La fichite nella febbre (tfoide) Morgagni 1913 lv 97 By Zentrelbi (d ges Chir u i Grenzgeb

This article is a review of our present knowledge concerning post typhus inflammation of the years It is generally accepted that phiebitis is caused by micro-organisms Opinions differ only on the question as to whether the causal agent is represented by the bacillus Eberthi or by other bacteria such as bacillus coli streptococcus and staphylococcus, or whether finally the towns of these bacteria may not be the cause of the affection. In the author's opinion the bacillus Eberthi must be considered the causal agent of the disease Phlebitis occurs in the stage of convalescence and generally attacks the left lower extremity usually the vena femoralis. In addition to the well known symptoms (fever pains figor and ordema) some authors mention extravasations into the knee joint and leucocytosis as clinical phenomena Prognosis on the whole is favor able but chronic ecdema of the hmb inflammation of the arteries and even embolism may appear as complications Treatment should follow the well known conservative method the method of double ligature of the thrombosed vessel which has been proposed by Robineau and Schlesinger in the au thor's opinion has not been sufficiently tested to admit of recommendation at this time HERROLD

Rohde: A Simple Device for Continuous Intravenous Injection (Enfacher Apparat zur Lezelung eines gleichmässigen intravenosen Enfaula) Zischy f biol Techn u Melholik 1013 im, 85

By Zentraibl f d ges Gynák u Geburtsh s d Grenzgeb

The author presents an improvement on Kretsch
mer s apparatus for intravenous injection By

this apparatus it is possible to read off the quantity of solution injected per second. Air pressure is applied on top of the reservoir containing the fluid to be injected. There is an attachment which also gives warning when the flow into the vem is not continuous or has become slower in the rate, thus permitting fruity connections to be easily and quickly corrected.

POISONS

Claypole. On the Classification of the Streptothrices, Particularly in Their Relation to Bacteria J Exp Med., 1913 xx10, 190 By Surg Gnec & Obst

Classification and study of the moulds or filamentous fungs are difficult because of the diverse upimon as to nomenclature of both species and or nera Although the matter is not settled botanically at seems best to adopt the term streptothrix for the genus and streptothrecosis for the disease The various strains show marked differences in cultural characteristics - character of the mycelia. Some are fragmentation and stampe reactions It is seen acid fast and others are non-acid fast that those forms which show long mycelia and very shight fragmentation are non-acid fast, and those which are markedly fragmented (bacillary and coccoid fragmentation) and have very short mycelia are acid fast. This suggests the similarity of the fungi to the bacteria (B tuberculosis B lepræ etc.) and raises the question whether, indeed they do not all belong to the one genus I his seems to be borne out by fixation experiments. The author found that the immune scrum of the largest branched non acid fast streptothricus gave decreasing fixation with the various antigens as the bicillary and acid fast forms were approached fuling to fix the antigen of B tuberculosis When the immune serum of B tuberculosis was used the reverse was true. Hence it would seem biologically reasonable to look upon this group of Streptothrices as representing an ancestral type that gave rise to the higher fungi and to true bicteria and not as being themselves higher bacteria JAMES F CHURCHILL

Thiele The Pathogenicity and Virulence of Bucteria Lances, I and 1913 claxxiv 234 By Surg Gynec & Obst

In this paper the author describes personally conducted experiments and personal observations and arrives at the following conclusions

1 Terments form an important normal mechan

san of defense aguinst bacterial invasion. The ferments performing this important function are (a) The normal panenayme (b) the slightly differentiated specific enzyme, (c) the thermolable specific coency me or amboreptor. These last stable specific coens in or amboreptor. These last stable specific coens in or amboreptor. These last stable specific coens in or amboreptor through any enzyme. The action of the ferment is to bring about protectly the digestion of the bacterix. 2 Exotoxins and endotoxins are bacterial protoplasm and are not primarily toxic per se, but only become so when acted upon by the ferments

3 The action of the ferments on the bacterial protoplasm is to produce toruc early proteolytic digestion bodies. These bodies, besides being toxic to the animal, are also aggressive in the sense of Bail, i.e. are antiphagocytic.

4 The action of this toxic substance, besides being aggressive, is to produce (a) in large amounts, death, (b) in lesser amounts, fall of temperature, and (c) in small amounts, fever. This substance is the cause of death in all bacterial infections

5 The virulence of a bacterium is dependent upon the power of exiding around itself a zone of its cyto plasm which remains in position and acts as a protective shield. The production of a zone of terment equilibrium in this shield protects the bacterium it self from the penetration of the ferment. The shield thus acted upon is also aggressive to phagocytosis.

6 Pathogenicity is due to (a) the virulence of the bacterium, and (b) the relative activity of the fer ment to the bacterium. Thus we should say that immunity is due to ferment action and phagocy tosis. i e it is cellulo humoral. D C Bairour

SURGICAL THERAPEUTICS

Finzi: Experiments with Ionic Medication J Ront Soc, 1913, IX, 5 By Surg, Gynec & Obst

The author has endeavored to determine eyperimentally the path various ions take when introduced into living tissue. For this purpose he passed a current of 6 milliamperes for a definite time through pads of cotton wood saturated with pads were in containing the ions to be used which pads were in contact, with the pads were in contact, with principle the pad was then excited and the presence of the ions therein determined by staining and microscopic examination.

microscope examination and ferric ions it was found that these were deposited almost entirely in the epidermis. Ferro- and ferri cyanide and ferrous nons penetrated deeply, calcium and probably care ions were deposited in and beneath the column Attempts to stain with suphwide and metalic wors for the column and probably and the column and probably attempts of the column and probably and in the column and probably and in the column and probably and in the column and t

In the course of the experiments it was also as actuated that when the ion penetrated deeply the milliamperemeter showed more current to be passing under perceively the experiment of the perceive of the experiment of the experim

Loeb, Lyon, McClurg, and Sweek: Further Observations on the Treatment of Human Cancer with Intravenous Injections of Colioidal Copper. Interit M J, 1913, 2x, 9

By Surg , Gynec & Obst

This paper represents a continuation of the study of the clinical effects of colloidal copper on human cancer. The authors have followed in close detail the course of nucteen patients, all afflicted with cancer and all subjected to colloidal copper injections.

The histories which they report confirm essentially their former conclusions Rapidly growing tumors which lend to extensive metastases in the internal organs, and those in which cachevia is pronounced. cannot be benefited by treatment. In the large majority of all other cases which must be considered inoperable, the continued intravenous injections of colloidal copper lead to a gradual retrogression of the tumor and in the majority of cases there is noticeable a marked diminution in the pain from which the patient suffers Furthermore, more recent observations confirm the statement made in their first publication, namely, that in a number of cases there is a gradual decrease in the effect of the injections. This slowing in the progress of retrogression of the tumors became more pronounced the further the work progressed, and in the majority of the older cases it is doubtful whether any progress was made in the last few weeks In one case, which had retrogressed quite markedly, there was perhaps a further extension of the growth within the last two weeks. It is not improbable that in this case the repeated cuts made into the tumor for the purpose of removal of necrotic material may have stimulated the growth energy of the cancer This gradual diminution in the efficiency of the intravenous insections has, however, as yet not become apparent in every case On the contrary, there were a number of cases in which the healing processes became perhaps more marked after the twentieth injection

angle more marked after the twentieth injection. The authors regard as a most important result of the manner and the manner an

Loeb, Fleisher, Leighton, and Ischii' The Influence of Intravenous Injections of Various Colloidal Copper Preparations upon Tumors in Mice Infert M J, 1013 xx 10

By Surg. Cyrac & Obst

Hand in hand with the clinical study of the effects of colloidal copper, Loeb and his conorkers have studied the effect of colloidal copper on mice inoculated with carcinoma. They used four different solutions of colloidal copper, which they designate as solutions A, B, C, and D, and they promise to describe in detail in a future pubheation the method of preparing these solutions

In practically all cases in which a strong solution of copper was upseted the tumor either did not grow during the period of the injections or growth was much related. It was very rare however, for an actual retrogression to occur, and it was necessary, to inject the muce every day, in order exenterizing frowth. If a weak solution of colloidal coper was used it everted no mildience on the tumor. But even when a strong solution was used it was not possible to probogithe effects of it in injections affect the tumor began to grow as rapidly as did an unitared tumor of the same size.

In addition to the experiments with collodal copper the authors carried out an additional set of experiments based on the injection of copper casein, the action of which drig is similar to but more variable than collodal copper. The casein prepara tion does not inhibit the growth of the tumor for aslong a period, nor does it check growth as completely as does the collodal preparation.

Meincke Chemotherapy of Malignant Tumors (Die Chemotherapie der malignen Tumoren)

M G SEELIG

(Die Chemotherapie der malignen Tumoren)

Deutsche Aerste Zeit 1913 1

By Zentralb) f d ges Gynak u Geburtsh s d Grenzgeb

Wassermann treated mice afflicted with malignant tumors with selenium cosin because the salts of this metal and tellurium are quickly reduced by the action of living cells, especially those which are proliferating rapidly Neuberg used as the basis of his attack the tendency of carcinomatous cells to disintegrate and the property of the heavy metals to increase it. He made organic combinations of the heavy metals The tumors in mice softened under this treatment and disintegration took place because of the death of the cell nucles The great danger in this treatment is that the therapeutic and toxic doses are so nearly identical, and that the body becomes overladen with the toxins set free by the autolyzed tumor cells The drug can be applied to man only with great caution RALF LUTZ

ELECTROLOGY

Barclay. The Diagnosis of Gastric and Esophageal Affections by X-Ray Methods Med Chron tele, 1913, lvn 187 By Surg , Gynec & Obst

In this article, X-ray methods, problems values, and difficulties are pointed out in a minner well classified and easy to follow. Considerable attention is given to motor conditions of the escophagus, stomath, and duodenum, both in health and in various stages of disease.

Examinations are made in the upright position

by the fluoroscopic method in preference to the radiographic, the latter being useful only in recording one or another interesting phase of the formations or actions already viewed. The posteroantenor ray projection is the author's choice for stomach work, and for escophagus the first oblique position a used. The preferred opene mature is preferred opened and milk, or in corticles:

In the esophagus the cause and appearance of system, obstruction and dilatation in various positions and stages are explained. Although no special attempt is made to furnish exact dath by which one or another cause of obstruction can be differentiated, except in case of aneurys mo large new growth, the fact of definitely showing the presence and site of obstruction is considered of great diagnostic importance. As compared with instrumentation the X-ray has many points of advantage Bougies should not be used where the lower end of the bismuth shadow is not distinctly funnel shaped.

In the discussion of the ridology of the stomach a sharp line is drawn between atony, which is an intrinsic missculve endowment, and peristalist, a movement controlled by nerve impulses which, cut off by discase along the nerve trunks may result in peristalities disease. The plorus is regulated by intrinsic properties of the properties of the principle of the properties of the properties of the principle of the properties of the properties of the seen, but when present is considered a sign of gross disease.

The author then treats the subjects of atony and pyloric obstruction and will continue stomach diseases in a later issue Hollis E Potter

Haudek The Diagnostic Value of Gastric Antiperistalsis. Arch Ront Ray 1913 Xxx 312 By Surg, Gynec & Obst

The author introduces the subject of antiperistalsis as a symptom in radiologic diagnosis which has been given particular attention by various authors but one which is still variously interpreted

Although the earlier observers saw reverse waves so frequently in cases of pyloric obstructions as to associate them diagnostically a close review of a long list of cases of antiperistalsis with subsequent operation showed enough of them free from organic disease of the pylorus to warrant us at present to place a broader interpretation on this finding Among the conditions referred to were the gastric crises of tabes in which no organic disease of the stomach was suspected, ulcers of the stomach at some distance from the pylorus not involving the pylorus except by spasm and even duodenal ob structions with pilorus patent. The existence of antiperistaltic waves may therefore be due to disease of the wall of the stomach or duodenum with or without spism of the pylorus

Certain experiments are cited which would substantiate this interpretation aside from the confirmation of operated cases The stomach wall stimulated mechanically or chemically at some little distance from the pylorus has repeatedly been followed by antiperistalsis

However, considerable emphasis is laid upon the value of this symptom as a general evidence of organic disease since it may be the only radiologic sign present in a given case

The author concludes thus broadly

- r Gastric antiperistalsis is a sign of some organic alteration in the walls of the stomach or duodenum
- 2 Antiperistalsis is most frequently met with in pyloric stenosis but is not an invariable concomitant of stenosis
 - 3 Antiperistalsis is only recognizable when the waves of contraction are of a certain amplitude, hence it is rendered more visible by any stimulus which will increase the depth of any peristalsis

HOLLIS E POPTER

The author ascribes a dual therapeutic action to the X ray -a destructive one associated with a passive hypera mia when applied continuously for a given length of time during a sense of exposures and a stimulating and regenerative one with an active hyperarma if given intermittently or in flishes of longer or shorter duration and varying frequency

This fatter method originated by Finlay R. Cook, has been used with success by the author in a variety of local and general conditions where tome effects were desired. Amongst the conditions benefited are mentioned anamia, neuresthema arterial hypertension incipient arteriosclerous and a number of eye and ear affections.

Crotti The Rontgen Ray in Intrathoracic Goiter and Thymus Hyperplasia J 4m W Ass 1013 lx 117 By Surg Gynec & Obst

Consideration is given mainly to those goiters the greater part of which he within the mediastinate or which have intrathoracic prolongations large enough to cause symptoms. These may extend downward from the median line or from either side

and compress the trachea from the front or side In the dorsoventral skingram their outline can be readily traced the parts in juxtaposition to lung tissue showing especially clear contours Ordi narily they cast smooth convex shadows, stregu lanty usually denotes malignancy Where they press upon the trachea this is usually evidenced by displacement of the trachéal shadow or by encroachment upon its lumen Fluoroscopy should supplement radiography, as small gosters, which might escape detection owing to their position, may thus be discovered during the respiratory movements Likewise aneurysm shadows which occasionally closely resemble goiter shadows can be readily differentiated by this method

Close examination of several operative goint cases, which the author cites in detail, revealed hyperplastic thymus glands in the mediastimal space. Examination of skagraphs of these cases, as well-considered the space of the several space of the
Von Noorden Radium and Thorium-X Therapy.

Med Rec 1913, lxxxiu, 92

B3 Surg , Gynec & Obst.

Radum or radum emanation and thorum A, as therapeut agents have been selected from a group of radioactive substances as being best adapt of to meet the requirements of practical therapy. Their action is described as essentially an electrical time of the protople-same constituents of the organism manimuch as radioactive substances distringual escolusive and manifestical expensions of the protople of the results of the organism manimuch as radioactive substances distringuals esposively and my so dome set free energy, electrical

in nature

The vanous methods of application which have been used are baths, inhalations drinking, injections and compresses or combinations of the above \(\) regards—their boologic activities it was found that they increased the metabolism of fats carbo byddaste and albumen in the bod halfs of a sort discourage and the exerction of uric actid in a high degree. Like wise they were found capable of producing marked changes in the blood and blood torming organs.

Among the conditions (avorably influenced by their use are mentioned endogenous obesity gout, subacute and chronic arthritides (especially arthritis deformans) myalgias and neuralgias commencing arteriosokrosis arterial by pertension permicious animira tuckemia insomina and nervous overscutability and sexual impotence.

The contraindications to their use are cardiac weakness cachevia senile marasmus Basedow's disease diabetes febrile conditions harmorrhagic diathesis severe neurasthenia and far advanced erythroblastic and leucoblastic conditions

As regards dosage there is as yet little unforming. Thorsum X especially given by the drailing or injection method is apt to produce marked variation of action with comprastively small changes in the amount used and great caution must be exercised in employing it. Combination of baths drailing and inhibitation as used at different soil area in Europe is probably the method of choice at terms in Europe is probably the method of choice at various consistent of the production of the production of the production of the production of radium salt solutions are rendered impracticable lowing to the probletties cost.

ADOLPH HARTUNG

GYNECOLOGY

UTERUS

Roldt Cancer of the Uterus. N 1 M J . 1913 By Surg , Gynec & Obst mm. 8

The author claims that the vaginal operation, particularly by the method generally used, gives a much lower primary mortality than the extensive abdominal operation, but when the disease has its origin in the cervix, even though it is still seemingly in the beginning stage, the percentage of recurrences

is very large

The vaginal operation has a field of usefulness but the indication for it should be limited to women who are very obese to the very early stages of enithelioma of the vaginal part of the cervix, and to cancer of the body of the uterus Particularly should preference be given to the vaginal operation in the cases mentioned if the patient's age be past fifty years since at that age and beyond it the disease is not so likely to have affected the glands If the vaginal operation be done the method practiced by Schauta of Victina should be that of choice

The features of importance are. An extensive paravaginal section must be made, extending about 2 to 3 cm behind the anus This gives an adequate approach to the field of work. The vaginal cuff, which is next made should take in the upper third of the vaging. The bladder must be well pushed off, care being given to its lateral attachments, so that the preters can be fully exposed to nermit tying of the uterme arteries outside of them

Since however the abdominal route permits a more extensive extirnation of the parametria be sides giving a better view of the field of work and since it permits the extirpation of enlarged glands. it is obvious that the extensive abdominal operation should be the method of choice, only excluding the class of cases previously mentioned

Cragin. Report of a Case of Carcinoma of the Uterus in a Girl 18 Years of Age Am J Obst N 1 1913, lxvii, 114 By Surg Gynec & Obst.

A patient 18 years of age who for several months had menorrhagia which responded to medication and general measures was found to have a cauli flower like tumor of the cervix which on micro scopic examination proved to be a carcinoma. A radical abdominal operation was performed, and the patient has showed no recurrence six months after the operation N SPROAT HEAVEY

Vautrin and Hoch: Chorio-Epithelioma and Hydatiform Mole (Chono-épithéliom et mole hydatiforme) Buil d Soc d Obst e d Gynte d Nancy 1912, No 8, 940 By Journal de Chirurgie

In this case, the explusion of hydatiform mole was followed several months later by a discharge, to which the patient paid no heed. When the case was seen ten months later there was emaciation, fever rapid pulse and a lurge and very soft uterus The history led to the diagnosis of a malignant tumor of placental origin and laparotoms was per-The uterus was very soft almost diffluent. it was covered with a scrous exudate. The omentum was adherent to the fundus thus covering over a neoplastic nodule which was continuous with a grayish mass that had partially hermated through the uterine wall Another tumor nodule lay close to the pelvic colon. This was excised and a hysterectomy performed. Care was necessary on account of the friability of the uterus. The patient recox cred

When the uterus was opened a grayish tumor was found, which formed a shaggy lining of the entire wall. The uterus was distended by this tumor. which at certain points perforated the uterine musculature Microscopic examination showed his merous necrotic foci in the tumor. The infiltrating element was composed of elongated and fusiform giant cells. The nuclei were large and in some cases multiple Certain of the cells were of plas modial reticulated type with numerous nuclei These syncytial cells formed a network about vascular lacunæ which had no other walls and infiltrated disintegrated and destroyed the normal tissues of the uterine wall

This form of chorio enithelioma should be classed among the type usually called syncytioma since the section showed no cells resembling the cells of Langhans layer. The further history of this case was lacking The uterine perforation and metastatic nodules made the prognosis unfavorable Larlier diagnosis and operation might have allowed of a better prognosis L CHEARIER

Sadher Some Complications of Urine Fibroids Commanding Early Diagnosis and Immediate Operation. Am J Obst \ 1 1914, Ivyi, By Surg , Gynec & Obst

Sadher reports the following cases (a) Rupture of blood vessels in a fibroid. A woman 25 years of age who had been entirely well until menorrhagia appeared two years ago was suddenly and acutely taken ill with pain nausea and faintness and with symptoms indicative of intra abdominal hemorrhage She was treated expectantly for eight hours. after which operation was performed. An artery, still bleeding, at the summit of one of the many small fibroids of a multiple fibromyoma of the uterus was revealed Supravaginal hysterectomy was followed by recovery (b) Suppuration of a fibroid A frail woman of 60 years who had not menstruated for ten years, noticed a swelling above

the pubis which under the symptoms of chills and fever rapidly grew to the level of the umbilious within a period of ten days. The shape simulated markedly a pregnant uterus. A supravaginal removal of the non adherent uterus revealed that a cavity holding 2,000 cc of pus had formed at the side of the fibroid on the posterior wall (c) Necrosis of a fibroid A patient, 45 years of age, who had of late years had menorrhagia, had an amenorrhœa appear, for the relief of which, under the supposition that she was pregnant, she dosed herself Soon afterwards she was seized with violent pain in the pelvis This was followed by a hamorrhage, and later, evidence of peritonitis with effusion appeared Operation revealed a subperstoneal fibroid of the uterus which had undergone a necrosis, due, Sadher suggests to circulatory disturbances pro-N SPROAT HEAVEY duced by an emmenagogue

Strassmann The X-ray Treatment of Uterine Fibroids (Zur Verwendung der Rontgenstrahlen für die Behandlung der Myome des Uterus) Therap

d Gegenwart, 1913 liv, 24 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The object of local X ray treatment in uterine fibroids is to cause a cessation of menstruation, to produce castration and atrophy of the uterus Not all cases can be successfully treated, those where the fibroid projects into the uterine cavity are better treated with the knife Painful myomata or tumors compressing the bladder or intestine had better be operated The technique of the treatment is as follows So to 100 light minutes are applied locally for five to six treatments, followed by a rest of 3 to 4 weeks, and if no contraindication has developed continued as before The action on the skin should be carefully watched, as sometimes late injury is seen there. Women who are anæmic from the loss of blood should be observed carefully, for not infrequently a threatening hæmorrhage occurs after the X-ray treatment has begun The knife cannot be dispensed with entirely in the treatment of LORFELDT fibroids

Schauta The Modern Treatment of Myomata (Ueber moderne Myombehandlung)

ll chuschr 1913, lxm 13 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Schauta declines the conservative vaginal or abdominal enucleation of myomata, because of the danger of recurrence (14 per cent) as well as the greater operative danger and the negative results as to subsequent pregnancy He prefers the abdommal route with the transverse fascial incision, though for small tumors the vaginal method has some advantages Supravaginal amputation is rather to be commended than total extirpation, yet he acknowledges and emphasizes the danger of malignancy in the stump An ovary left behind is not highly valued, since without the correlation of the uterus its activity soon ceases. With reference to the indications for radical treatment, the author

lays stress upon the importance of recent research as regards malignant (sarcomatous) degeneration of the fibroids, also pointing out the frequent combina tion of myoma and corpus carcinoma (10 per cent) Besides that, there is the danger of endocarditis. myocarditis, crown atrophy, and necrosis and thrombosis of the vessels. The so called benign myoma is viewed very skeptically Because of their slight value, abrasion and ergotin treatment are merely touched upon. In large part the article is devoted to treatment with the X-ray Schauta re gards the effect thus produced as a bloodless castra tion, a procedure free from danger and causing less decomposition resorption, probably because the generative function of the overy only is destroyed, the interstitual portion, producing the inner secre tion, being conserved Contraindications to X ray treatment conform with those of Klein thor's own results following the method of Albers Schönberg are not very encouraging. Only with the gynecologist as diagnostician should the Rontgenologist be allowed to expose myomata to the rays Schauta looks upon X ray therapy as a welcome supplement, a help in need, and is convinced that radical extirpation is still the safest procedure for the present and for the future

Goullioud Treatment of Uterine Malformation by Laparotomy (Du traitement des transformations utérines justiciables de la laparotomie) Ann d Gynée et d'Obst , 1912, 1x 593 691 and 726
By Journal de Chirurgie

After a brief discussion of the anatomy of uterine malformations, the author takes up the disturbed functions of the uterus From a study of the latter, the general statement is made that in most all bicornuate uten the incomplete drainage plays an important rôle in the symptoms. He divides his article into four heads

1 Painful rudimentary uterus without ham orrhage The two symptoms are amenorthesa and pain The displaced uterus is full and the uterine cavity is obliterated or absent The pains are sufficient indications for surgical treatment

hysterectomy with drainage is done Uterus with rudimentary cornu The rudimen

tary cornu with a cavity filled with blood gives a lateral tumor chinging to the uterus which can easily be mistaken for a fibroma or salpingitis. The pains are ordinarily sharp. It is pedunculated and resection is done through the pedicle. If it is sessile more conservative treatment is used, such as a myomectomy If it is embedded in the surrounding structures it is to be extirpated along with the adnexa on that side

Double uterus Hysterectomy of one half is the ideal operation for this condition removing the adnexa as in hematosalpinx, and when unavoidable. marsupialize When the two uterine cavities can not be easily separated a total hysterectomy is done hs the abdominal route. In certain cases a uni lateral salpingectomy is possible with the incision

of the hamatometrix through the vagina. In cases where the general condition of the patient will not permit a hysterectomy, a bilateral salpingectomy must suffice. In rare cases, a simple vaginal operation might be considered with puncture or incision of the hamatometrix. The suppuration of the pouch is an absolute indication for puncture.

A Instriords terrait or sishmis tath only one unter 1 finentional symptoms are always pain and amenorthose. Different types cust upon the bass of physical examination imperforate uterine isthmis with a contracted uterin, under 3 or 4 cm, imperforate external os with impermeable but distributed to the contraction of
In discussing the treatment of the conditions mentioned above, the author makes the following

classification

(a) Imperforate uterine isthmus The ideal operation in this case is tracheostomy, following the well perfected technique of the author Make an abdominal hysterotomy, opening the fundus and cervix and resecting the bicuneiform fibrous isthmus, sutture the two lateral lins, and close the

uterus, abdominal drain

(b) Imperiorate cervar replaced by fibrous bussue The operation advased here is a sagual hystero clystrostomy with a laparotomy to find out the exact state of the adnexa. The vagual operation may be done in different ways a simple puncture with a trochar or scalpel through the fibrous tissue, puncture of the hæmatoma without paying attention to the fibrous cervit, and suturing the opening of the vagua, resection of the cervar and suturing of the uterus to the vagual muscle.

The latter is the technique perfected by the author (c) Complete separation of uterus and vagina Different methods of procedure have been devised Backa'and displacement of the uterus and making a fistulous opening between the vagina and uterine fundus (Haibaw). After having begun the loosening of the uterus through the vagina Hofmeer continues by the abdominant route. He opens the inflerior pole of the uterus passes ligatures through the displacement of the uterus and through the vagina Hoffston and the second of the displacement of the dis

Pathology of double utern aside from the harma tometrix. We can find with normal or hæm, orgahic utern salpingtis, benign or malignant tumors, and panful retro-crosions. These lesions should be treated in the customary manner, remembering that we are dealing with two cavities, and that each should be treated individually and with the least possible multilation.

Operative technique With reference to the technique, we must remember that on each side there is but one uterine artery and that the broad ligament is absent. There is one ligament more or less thick

ened, the vestoo rectal, which is often walled off and must be loosened with care. The existence of this band is a strong argument in favor of the abdominal route for all radical operations. There often exist malformations of the urmary organs such as rodimentary ureters and kidneys, and these are at times abnormally situated. More important is the fact that the ureters can be more carefully watched

The general conclusion of the author is that we must apply the best methods for each individual case, being guided by the lesions present, remembering all the while that conservation is better than too radical procedures in many cases

L CHEVRIER

Barrows. The Surgical Treatment of Prolapse of the Uterus. N Y St J M 1913, xm 32

the Uterus. N Y St J M 1913, xm 32
B) Surg Gynec & Obst
The treatment of uteruse prolance advocated by

The treatment of uterine prolapse, advocated by the author, is based upon the interpretation of the condition as a herma of the uterus, with its attached bladder and rectum due to a relaxation of the upper pelivic floor. Mindful of the importance of preserving the vascular and nervous supply of the upper pelivic floor so as to prevent further relaxation of the structures, as emphasured by Professor Pols, the structures, as emphasured by Professor Pols, the has given satisfaction in the majority of the cases. Cures are reported on the hospital records of a large number of patients, and twe cases from his private practice illustrating the range of indications of the method are also quoted in support of the author's argument.

The operation consists of the following stages, all to be done at one sitting (1) Amputation of the cervit uters, (2) anterior coloporthaphy, (3) repair of the torio or telaved perineum by the flap-publishing method, with approximation of the separated perineum and insucals and fascia, together with shortening of the round higaments by Alexander's method. This mode of shortening the round langments is regarded by the author as the most important part of the procedure. The direction of the uterine axis is improved and the cervix is made to impringe upon the posterior vaginal wall above the restored perineal body instead of following the axis of the vaginal canal

The method is especially suitable for the retief of utering produpes in flesh patients whose abdominal walls it is desirable not to injure and in cases of comparatively rapid prolapse in young women as a sequel to extensive laceration of the perineum. A perimanent cure is to be expected in properly selected cases after a short period of rist in bed (usually two weeks) with no danger to life and very little sulb

rective discomfort

In cases in which no objection to opening the peritoneal cavity obtains, Polk's operation for tightening up the upper pelvic floor promises the best results. This consists in plicating the vagnial wall at its junction with the uterus by bringing it

together from side to side in front of the cervix, the bladder having been previously separated and Three kangaroo tendon sutures pushed forward are sufficient for this The uterosacral and round ligaments are then shortened

The efficiency of the procedure is illustrated by the results obtained in 16 patients of Polk and 3 personal operations of the author, in all of whom the prolapse was apparently cured absolutely, without complication of any kind or discomfort to the pa Two of the last mentioned cases of more than two years' standing are well and free from any

ADNEXAL AND PERIUTERINE CONDITIONS

disturbance at the time of the report

Jones. Etiology, Pathology, and Treatment of Ovarian Cysts in Relation to Child-Bearing, with Special Reference to Hæmorrhage into the Cysts Surg , Gynce & Obst , 1912, 211, 63 By Surg , Gynec & Obst

In the case reported a marked enlargement of the abdomen appeared within a few minutes after a normal labor following a normal pregnancy Rapid increase in size continued until the fifth week, when the writer was called in consultation A diagnosis of probable ovarian cyst was made and a laparotomy was performed by him The growth proved to be a multilocular cyst of the left ovary, which was very adherent to the abdominal wall, bladder omentum, and intestines It was composed of one large cavity holding about 532 litres and four other relatively very small loculi The contents consisted of choco late colored (hemorrhagic) fluid and there was abundant hæmorrhagic infiltration of the cyst walls The sudden enlargement following delivery prob ably was due, in large measure at least to hæmor rhage into the cyst which was caused by lessened intracystic tension following the sudden increase of intrapelvic space, due, in turn, to the sudden emptying of the uterus

A consideration of this case, together with a re view of the literature upon this subject, leads to the

following conclusions Ovarian cysts almost 1 Etiology and pathology always produce serious trouble sooner or later and especially during pregnancy, labor and the puer The most dangerous period is the puer Torsion of the pedicle is the most common perium accident, with its resultant hæmorrhage, gangrene and infection The most frequent result of twisted pedicle is hæmorrhage, which occurs in about 50 per cent of all cases of torsion

2 Treatment The tendency of ovarian tumors is almost always to increase in size more or less and also sooner or later to undergo torsion, hamorrhage, gangrene, infection, or malignant degeneration Hence, in general, these cysts should be removed as soon as possible after they are discovered should usually be particularly careful not to let a woman pass into the puerperium without first ridding her of the cyst.

Most clinicians maintain that an ovarian tumor in most cases should be removed as soon as it is Exception may be made to this rule in case the tumor is not discovered till after the fifth or the sixth month of pregnancy One then frequently is justified in waiting till the child is viable

As to the choice of treatment, there usually is no room for doubt So called expectant treatment in most cases amounts to practically no treatment at all Aspiration has a very high mortality Obstetrical operations have an enormous mortality, unless the obstructing tumor is removed before they are undertaken Ovariotomy (usually abdominal) has a mortality far less than any other procedure (less than 5 per cent of all cases) Cresarean section if undertaken early is an excellent procedure in The author concludes with the certain cases words of Mckerron, which are more pertinent today than they were nearly ten years ago, when he 'All the available evidence points wrote them to the advisability of early operation" (ovariotomy)

Seedorff Hæmatoma of the Ovary, Its Origin and Clinical Significance (Hamatoma ovan, dets Fremkomst og klimiske Betydning) Hosp Tul 1913, lv1. 23

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author, as Hendley and Savage have done before tried to differentiate a group of ovarian cysts from hamorrhagic ovarian cysts which consist of larger cysts with a bloody content and are characterized by a special formation and a special etiology The size of the cysts examined varies from a walnut to an orange but may be considerably larger The inner surface is not smooth but is covered with a network of strands which here and there appear as trabeculæ Between these hes the content of the cysts, which is usually a bloody mucoid mass. Inoculation with this substance always gives a negative result. The ovarian tissue may be entirely atrophic In 2 cases out of 7 which the author examined more carefully he found numbers of lutein cells and in the remaining 5 there were cells which looked like those seen in older corpora lutea on these findings Seedorff's conclusion is that these tumors form a separate group and he thinks they are old corpus luteum hamatoma the wall lead one to think of the well known folds of the corpus luteum In hemorrhage into the cavity these can be gradually wiped out They occur bilaterally, and their course is chronic The symptoms are little characteristic and the diagnosis can therefore be made only with more or less probability In none of the cases referred to was a diagnosis positively made. The treatment is like that of salpingitis Since the condition cannot always be treated conservatively there will be a number of cases in which operation is necessary and furthermore since younger persons are often affected, one should be as conservative as possible during the operation Histories of 25 cases are added

S A GAMMELTOFT

Meyer and Ruge II: Relationship of the Time of Corpus Luteum Formation and Menstruation (Ueber Corpus luteum Bildung und Menstruation in ihrer zeitlichen Zusummengehorigkeit) Zentralbi f Gynak , 1913, XXXVII, 50

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Basing their conclusions on a study of 82 cases the authors determined a relationship between the time of ovulation and menstruation In the 28-day cycle of menstruation the ripening of the follicle probably comes after menstruation on about the eighth day from its beginning, if not during the time of menstruation itself. The beginning of lutein formation is the second week then the hæmorrhage follows in the second half of the third and in the fourth week. The height of the hæmorrhage is immediately preceding menstruation. During the latter regression begins and lasts about 14 days The normal sequence is then as follows first the hyperæmic stage of the corpus luteum during the interval, the stage of vascularization of the corpus luteum at the beginning of the premenstrual phase hæmorrhage of the corpus luteum in the advanced premenstrual phase the high point of hæmorrhage of the mucosa and of the corpus luteum shortly before menstruation and the regression during and after the same During pregnancy the corpus luteum remains at the high point of its hæmorrhagic P SCHAFFER state

VAGINA

Stratz Three Cases of Vacinal Tumors (Dec Falle von Vaginaltumoren) Gynak Rundschiu 1913 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author reports three interesting tumors of the vagina One case is that of a walnut sized fibroma above which the uterus lay in retroflexion dislocation of the uterus disappeared after removal of the tumor. The second case consists in a cast be hind the urethral orifice lined with one layer of epithelium and containing cholesterin dysuria being the symptom complained of Lterus dupley was found above, and in view of this anomaly the origin of the cyst is probably an embryonic enithelial inclusion in the development of the progenital sinus The symptoms disappeared after the removal of the cyst. The third and last case was that of a woman who had been operated upon several times for urmary incontinence, and where dystopia of the urethra and a paraffin mass resulting from an earlier operation were found After removal of the tumor and plastic repair of the urethral orifice this patient was dismissed entirely cured

Römer A Case of Hæmatoma of the Vagina and Vulva, with Subsequent Death from IIæmorrhage (Lin I all von Hamatoma vagine et vulve, mit nachfolgendem Verblutungstod) Zentralbl f Gyndt, 1913, xxxxiii 131 B3 Zentralbl f d gee G5nāk u Geburtsh s d Gtenzgeb

Following a spontaneous delivery in a 23 year-old bipara, a hamatoma developed in the vulva and vaging the size of a child's head, which separated the entire posterior wall of the vagina from the rectum as high up as the uterus During the transportation of the patient to the clinic the blood tumor broke and an enormous hamorrhage took place, approximately two liters A few hours after admission the patient died in collapse The author regards the rupture of the larger vessels in the paravaginal connective tissue, produced by the pressure of the head on the promontory, as the cause of the TARGER hæmatoma

Rubin and Leopold: The Cause of the Persistence of Gonorrhœal Vulvovaginitis in Children. Am J Dis Child , 1913 v. 58

By Surg Gynec & Obst

After remarking on the chronicity of this infection. the authors report their examinations. For the nurnose of determining the location of the affection. a female urethroscope was used. By this means they were able to determine that the vagina was affected in practically all cases and also that the cervix of the uterus was involved in the same way Accompanying the article is a very exact description of the cervix uten as found in infants and young children Being satisfied that none of the treat ments heretofore employed were adequate, the authors tried by injection through the urethroscope an antigonococcus serum without any results whatever

In the treatment they make the following suggestions 1 It is important to determine the extent of the deep lesion before any active treatment is begun For this purpose the electric lighted female urethroscope should be employed 2 By means of the same instrument appropriate medication can be carried out 3 When irrigations are resorted to the douche tip or catheter should enter the vagina at least 11/2 inches 4 Applications by means of swabs used alone are useless and injurious 5 When strong silver solutions are applied to the cervix and vagina, it is well to keep the nationt in bed for a few days The authors draw the following conclusions

The invasion is more violent and more extensive owing to (a) the close proximity of the portals of entry, (b) the tender mucosa and epidermis 2 Once started the infection practically develops

as in a closed tube This is not due to the valvelike closure made by the bymen but to the construction of the perineum and the external genitals I ach segment of the vagina from the most superfit call to the deepest part serves as a valve to dam back the discharge This is due to the fact that the vaginal walls are in close contact and do not permit of natural and easy drainage

3 Crypts and adhesions in which bacteria lodge

form in the vaginal mucosa

4 The vaginal portion of the cervix shows the deepest changes, and is at the same time in the most disadvantageous position for drainage and treatment C G GRLLER

Penkert Recurrent Menstrual Diphtheria of the Vulva (Rezidivierende menstruelle Vulvadiph thene) Med Klin, 1013, ix 100 By Zentralbi f d ges Gynäk u Geburtsh 5 d Grenzgeb

Stratz reports a case of genuine diphtheria of the vulva in a woman 43 years of age, secondary to a cold of more than 3 years' standing Each month, shortly before and during menstruation, the symptoms tended to flare up, both the throat and the vulva becoming membranous. The patient was variously treated for gonorrhoa and lues On both sides of the vulva yellowish gray membranes were found, closely adherent to the surface and bleeding slightly when loosened The bacteriologic examina tion showed diphtheria bacilli Upon injection with Merck's antitoxin the bacilli could no longer be re covered and the membranes in the throat disappeared The vulvar membranes, however, were only removed by local treatment with procyanisis

Ehrl Therapy of Gonorrhoa (Zur Therapie der Gonorrhoe) Il ten med Il thuscht, 1913 kmi, 2,4 By Zentralbi i d ges Gynäk u Geburtsh s d Grenzgeb

By bacteriologic proof only can urethritis be looked upon a spoortrickal I in every case the traitment should be individual. Etht emphasizes the importance of internal therapy with disinfections thus supporting the natural prophlactic forces Such a remedy he has found in arbouin, which core duces no secondary effects even when used for some time. All subjective disturbances disappear prompt by, as do the objective often fatter a few days.

MISCELLANEOUS

Stefko The Action of Adrenalin on the Ovaries and Uterus of Some Mammalia (Adrenalin und seine Entwirkung auf die Ovariea und den Uterus eninger Mammalia) Fortschr d Med 1913 xxxx of By Zentralbl f d ges Gynak u Gebutsh s d Grenageb

The author gives a summary of the hierature on the relation of the adrenal and sexual glands. Emesis gravidarum is cured by adrenalm. Stefad 2 to 6 cc of a 1 roso solution of adrenalm hydrochloride to rabbits and examined the animals on the eighth day. There was a loss of 40 to 50 g m in weight, of the owners meroscopically revealed an inspect of the owners meroscopically revealed and the adrenalm reaction was positive. The author concludes that internal secretions from the ductless glands plays a 70 les next determination.

Gemmell and Paterson Duplication of Bladder, Uterus, Vagina and Vulva, with Successive Full Time Pregnancy and Labor in Each Uterus. J Obs. Come Bot. Emp., 1913, 2xiu 25. By Surg., (vync. & Obst.

The patient, in whom this anomaly was discovered, was a woman of medium height and well nourished Her general configuration was normal except that the umbilious was absent and the pelvis was enormously wide The distance between the anterior superior spines was eleven inches There was no symphysis pubis nor mons veneris, the distance between the two pubic bones being 578 inches Two separate vaging and two uters were demonstrable Between the thighs a perineal space of a inches was formed The curve of the sacrum and coccyx and their relation to the spine of the ischium on the left side rendered the left half of the pelvis al most normal Behind the left vulva was a single anus The vulvæ were normal in size and form Labia majora were present, with labia minora, chtoris, vestibule and the opening of a urethra for each vagina A well formed cervix and corpus was palpable bimanually through each varina These were freely movable and independent of one another. A single ovary could be felt at the outer side of each uterus The urethræ were apparently normal. Urine may be withdrawn by catheter through either. After injecting collargol through each, two separate and distinct blad ders were demonstrated on the X ray screen

An area anterior to and between the two vulvawas decord of hair or sweat glands. Through this a hole was palipated. The authors suggest that this represents the umbilical area and propose by way of explanation that there has been no allantous or umbilical cord, that the fortal belly-wall was in cottact, with the placenta and that at birth the orifice

was ligatured Obstetrically the patient was first seen in April, 1010 in labor, the fortal head presenting at the right The only mechanism present was that of descent, so that the posterior vaginal wall was pushed against the glutco penneal tissue, stretching and thinning out the structures forming the right permeum a false one as opposed to the real one on the left side In incision was made through the right up of the vulva, downwards and to the right, to a distance of three inches and the child was easily extracted A second labor two years later terminated spontaneously In this instance the child occupied the left interus and was born through the left vulva, the more perfect bony framework of the pelvis on this side compelling a normal mechanism of labor CAREN CLIBERTSON

Bossl Psychopathy in Diseases of the Ovaries and Uterus (Exercices Uterus krankhenten und Psychopathica) Bestr z Geburtsh u Gyndt, 1913, zvm 130

kvin 130 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

Boss again strongly advocates his theory, that many psychopathies take their origin in gynecological diseases and that they disappear finally when the affliction is cured. Most frequent are mental disorders in chronic endometritis with stass of pus in the uterine cavit. The diagnosis of the mental disease is unimportant the conspicuous symptoms only being of value such as melanchoits, overirritability, paroxysms of rage, inclination to suicide, The same gynecological disease may cause the most varying psychopathic symptoms, according to the individual constitution The danger of a mental disease is especially great in neuropathic women and here by way of prophylaxis the closest attention must be given to the cure of the endometritis and cervical catarrh When the psychic affliction is first established the gypecologic treatment is very difficult, and such patients should be cared for in the clinic before they are sent to an insane asylum Likewise, in neuropathic men the closest attention should be given to the cure of any somatic trouble in order to prevent mental disorders

Bossi energetically repudiates the accusation of exaggerating, and to demonstrate the correctness of his theory he enumerates many quite conspicuous cases which have been published, and cites two cases in detail. One of these women had been placed in an insane hospital for dementia præcox and became completely normal after the cure of the gynecologic disorder -- cervicitis, endometritis, and retrodevia- -The other nationt had the same tion of the uterus pelvic condition and was cured of her mental dis order and chora by a gynecologic operation, thus being saved from the asylum Both women returned to their families, became pregnant, and gave both to healthy children, and are now, 14 months after their trouble, physically and mentally well

In the discussion Genta approves of Bossi's theory, and reports two cases of mental disorders based upon ear diseases which disappeared after the cure of the latter Maraghano and Varaldo report cases in which psychic diseases disappeared after the cure of prostatitis and after extirpation of an ovarian sarcoma Oliva, Pastine and Bassoni advo cate the recognition of certain clinically well defined psychiatric diseases on a definite anatomical basis Oliva advises consultation with a gynecologist in mental diseases, provided the patient be handed over again to the psychiatrist after the pelvic trouble has been removed RUBEMANN

Cohn The Relation Between Breast and Ovary, with Respect to the Internal Secretion (Die innersekretorischen Beziehungen zwischen Mamma und Ovarium) Monaische f Geburtsh u Gynäk. 1913 XXXVII 93

By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb The relation between the mammary gland (the supple excluded) and the genitalia finds explanation in the influence of a hormone, according to the results of transplantation experiments. The source of the hormone was looked for in the ovary, but as to its existence there is great uncertainty The tela tions became clearer when the influence of the ovary upon the development of the breast is kept separate from that exerted upon its function Ovarian in fluence upon mammary development exists, without doubt As yet there has been no definite research, during the embryonal period, as to whether ele mentary influences if indeed they originate in the mother at all, come from the maternal ov tries or not

Observations on children whose mothers have both ovaries extirpated during pregnancy would be of importance, but these are thus far missing, as are results from animal experimentation. The direct influence of the ovary is apparent from castration

experiments during puberty Against the possible theory that this influence takes its course indirectly over the atrophied uterus, Coho cites a case in which ovaries and mamma were well developed in spite of a congenital defect of the uterus The mammary gland remains small only when the genital atrophy involves the ovaries such a case Cramer has effected menstruation and a better development of the breast by implanting the ovary from an osteomalacic woman. That the ovarian influence causes the swelling of the mam mary gland during menstruation is very likely, proof of which, however, is yet wanting But the function of the breast during pregnancy seems quite different At the beginning of pregnancy the corpus luteum may be thought of as an interstitial pland. but the change after delivery is not explained by this Placenta and ovum have been considered, but placental extract and the pulp of the embryo offer no specific action A probable explanation is that the mammary gland which during pregnancy is influenced to increased growth in a specific manner. is influenced to an increased production during the puerperium by a non specific lymphagogue activity Certain other observations speak for an antagonism between the ovarian and the mammary function. such as milk secretion after castration, changes in the climacteric in bilateral ovarian tumors and in purulent breaking down of the ovaries The author gives the history of a case of atrophy of the ovaries and amenorrhica with simultaneous adiposity (Dystrophia adiposogenitalis) and pronounced milk secretion The necessary lymphagogue or leucostimulants depend upon the ovaries in so far as they become effective only after ovarian activity has ceased from indefinite experimental results it would appear that the breast, on the other hand, may influence the function of the ovaries by hormones, but this has not been established with In one case of amputation of both hypertrophied mammæ during pregnancy the menstruction became very irregular and weak for is months but subsequently again became normal

KERMALNER

Prochownick Acute Tuberculosis Following Gynecological Procedures (Akute Tuberkulose nach gynakologischen Eingriffen) Zentralbl f Gyndk 1913, xxxvii 7 By Zentralbl I d ges Gynak u Geburtsh s d Grenzgeb

Prochownick has examined critically 7 cases where tuberculosis followed genecological procedures and resulted in death These were often simple operations such as dilation with laminaria tents, reposition of the retroflexed uterus, attempts at reposition with the sound curettement following criminal abortion, and extirpation of gonorrhoic or

tuberculous adnexa In five women there was no evidence of latent tuberculosis in the body or genitalia, although the husbands of two were sus pected of being tuberculous. The immediate improvement was remarkable. The beginning of the fatal tuberculosis was relatively late, thus giving late findings in the lungs and pleura | Lxpectoration and demonstration of the bacilli were entirely want-In one case a caseous pneumonia, following an uneventful operation arose from a focus in the apex of the lung and had given no symptoms another case he observed fatal tuberculosis follow ing an extirpation of a tuberculous kidney with an extension into the connective tissue. The author emphasizes the importance of clinical examination A diagnosis can often be made by summing up all the findings history temperature examination of the blood the firm flat extension of tuberculous areas Hegar's rosary, tuberculin reaction, cystoand rectoscopy and curettement which, however is vary dangerous, giving a positive result in only about one third of his cases Tuberculosis must be sus pected in every protracted cases of discuse of the adnexa which does not yield to treatment theories of Kronig that a genital tuberculosis seldom leads to a miliary tuberculosis if local treatment is not employed, and that it almost never causes the death of a patient must be modified. When ever tuberculosis is present in the genital tract a circumspect prognosis should be made cannot agree with this ultraconservative view of Kronig In tuberculosis localized in the genitalia a cute or improvement lasting through a number of years can be attained by excision of the focus

BENTIE

Reynolds The Theory and Practice of the Treatment of Sterility in Women J 1m M 1ss 1913 it 91 By Surg , Gyncc & Obst

Reynolds discusses intimately the causes of sterling in some with respect to the less pathodisc conditions or lessons. Monormal signal or curvature as the somewhat new idea that minor configuration is as in the somewhat new idea that minor enlargement of the ovarus, long regrided as unique portain in all respects are in reality of great important rate in their relation to sterling.

Hostility of cervical uterine secretions may be diseither to their altered chemic (composition of the mechanical obstruction produced by increased viscosity. Persistent congestion of the upper general tract has long been known as a bar to ferthity. This can be explained by the existence of an overabin dant secretion flowing continuously from the or This congestion may be due to miny pithologic lesions, but is also the product of overfrequency or abnormalities in the sexual act or appetite

An over scant; cervical flow with consequent inspissation is an equally efficient mechanical obstruction to the progress of the spermatozoon Probably this inspissation is the result of some degree of infection of a secretion which is arrested

behind a mechanical obstruction. Mechanical obstruction in married women is followed in most instances by some degree of ascending infection.

He next considers obstacles to the conjugation of the spermatozoon with the oyum, which are furnished by abnormal conditions of the tubes and oyanes

The existence of an absolutely normal uterino secretion disproves the existence of sajinguis. The coincidence of persistently abnormal uterine secre tions and tubal tendernes always warrant a pre sumption of mild tubal inflammation. These mild inflammations are nexif found in coexistence with an entirely normal lovary but are always accompt an entirely normal lovary but are always accompt and entirely normal lovary but are always accompt and the coarge as its usually realized.

Prognosis of the several classes of steribity

1 Poor (a) For persistent infantile uterus, or for degrees of underdevelopment which approach it, there is no treatment

(b) After resections of portions of thoroughly diseases tubes the chance of pregnancy is uniformly discouraged

2 Remediable (a) Sterility due to congestion caused by unsatisfactory sexual relations

(b) Strility due to alterations in the vaginal secretions is not very common and is usually easily remedied.

(c) Strility due to abnormal cervical secretion usually implies the existence of an altered vaginal sesecretion as well. When the pathology is situated only in the cervical canal it is usually a mere inspissation in a dilated canal behind a pinhole os in the treatment is free drainage with or without curertage.

(d) Sermity due to attered cervical utrine and tubal mucow and those complicated by semicystic ovaries art difficult of spiritate classification. In the trium in of sternity success is not to be expected in any large proportion of cascalisates to create the many large proportion of cascalisates to create the many control of the complex of the complex exist of the owns is spermitted to persust a farter of the mucous membrant, to normal is attended by only a small percentage of pregnancies. Many conditions capable of producing sterilary are insuffision to produce the other symptoms which are associated with abnormalities of the pelice organs.

köhler Technique and Results Obtained with Röntgen Ray Treatment in Gynecology (Zur Technik und Lefolgen der gynäkologyschen kontgen therapse) Fortsehr a d Geb d Röntgen 1913, nr. 408

By Zentralb! f d ges Chir u i Grenzgeb

hobler reports his experience and results obtained in the treatment of mjormta giving details of technique Twenty six cases of mjorma were treated Fifty per cent of the cases resulted in complete cessation of humorrhages while in the other fifty per cent oligometorhage as solutaned, adminution of the myomata could be demonstrated in thirty per cent of the cases. Köhler is a decided opponent of the radical method of treatment, by which per manent results are expected after a few prolonged exposures. To explain his position, he directs atten too to experiments on animals which prove that the mucous membrane of the stomach for instance, is markedly and permanently altered by intense \(\lambda\)-ray illumination. Injuries will result even from smaller doses, but in this instance are not irreparable, as the epithelium will recover its normal condition during the intervals between treatments, the ovarious folicies, however, being very highly the permanently injured even by all the properties of the permanently injured even by all the properties of the permanently injured even by all the properties of the permanently injured even by all the permanently injured even by all the permanently injuried even by all the properties of the permanently injuried even by all the permanently i

HIEMANN

Frankel Rontgen Rays in Gynecology (Die Ront genstrahlen in der Gynakologie) Fortschr a d Grb d Rontgen, 113 xix 412 By Zentralbi f d ges Chir u 1 Grenzgeb

In reply to an inquiry concerning the treatment

of female diseases by means of Rontgen rays Frankel earnestly warns against the employment of enormously high doses because they lead to vesical and intestinal disturbances and adhesions in the pelvis. These accidents will be avoided by giving small repeated doses as the intervals between treatments permit recovery of the tissue which in this respect differ from the very sensitive ovarian follicles In two thirds of his cases (about 280 cases of myoma) Frankel obtained good results by his method. He has also successfully extended treat ment with Rontgen rays to all the other forms of gynecological hæmorrhage He has moreover employed the method for the permanent or tem porary prevention of pregnancy in psychopathic or luetic subjects or in those affected with diseases of the lungs the kidneys or the heart. In this direction he finds promise of good results for the future In four instances he has also successfully employed A ray treatment for tuberculosis of the peritoneum associated with adhesions though complete cures could not be obtained. The apparatus required and the manner of its operation are described in detail THIEMASS

Oastler The Occurrence of Hernia in the Abdominal Wall after the Gilliam Operation for Retrodisplacement Am J Obst N Y 1913 lxvn 145 By Surg Gynec & Obst

Oastlar reports the occurrence of herma in two cases at the site of the attachment of the round ligaments to the abdominal wall after the Gillium operation which necessitated a repairing operation which the original operation Nepout HEARED

Chapple The Treatment of Pelvic Inflammation by Autoinoculation Lancet Lond 1913 cluxiv, 10, By Surg , Gynec & Obst

The author males a preliminary report on a method of producing autoinoculation. It is general ly accepted that an increased blood supply to an affected area causes a liberation of an increased quantity of toxins into the general circulation thus

producing an autoinoculation with the products of the offending organisms He therefore suggests raising the local temperature of the pelvis sufficiently for a definite length of time to thus secure an increased blood supply to the pelvic organs The best results will be obtained by regulating the dose both as regards quantity and time of introduction, the aim being to give the second dose when the negative phase produced by the first is over and the positive phase has been definitely entered upon The desired pelvic congestion is easily produced by the heat emanating from several powerful electric lamps, suspended from a suitable cradle which surrounds the patient's pelvis A Fergusson speculum is introduced into the vagina with its upper end in the posterior forms and consequently lying almost in contact with the inflammatory area and its outer end in direct communication with the bath typical case from his series of readings showed that the bath temperature was 180° the temperature of air in the vaginal speculum 135° and a ther mometer placed in contact with the posterior forms read 101 5° whereas the mouth temperature was of 8° The onsonic index was followed in his cases so far as was possible C H Davis

Duhrssen Synthetic Hydrastinin Ilydrochloricum (Leber synthetisches Hydrastinin hydrochloricum) der Kin Wehrschr, 1913 1, 64

B. Zentrubl f. d. er Grank in Geburth S. d. Grenzech

By Zentralbl f d ges Gynak u Geburtsh's d'Grenzgeb.

Duhrssen uses hydrastinin hydrochloricum, syn

thetically produced by Bayer, with good results, especially in hemorrhages due to diseases of the adnixa. The preparation has the same therapeutic qualities of the flex thy ydr canad. It is employed in tablets of 0.02 gr on etablet four times daily or as a hequor 20 drops three times a day. It is considerably cheaper than other preparations.

11 AGNER

Offergeld Synthetic Hydrastinin and Its Use Urber synthetische Hydrastinin und seine Anwend ang) Ber klin Wehnschr 1913 | 62

By /entralbl f d ges Gvnak u Geburtsh s d Grenzgeb

II drastnum hydrochloricum (Bayer) is mide synthetically from piperonal (meth) elnester of protocatechialdehyde). The advantages of the synthetic product over fle ext hydrastis canadensis or hydrastian is that it exetts a much stronger action on the missculature of the uterus a strong vasconstrictor effect on the peripheral vessels and there are no cramps after large doess. The synthetic product is not a heart poson and there is no bad of the arthread from the natural drug. The quality of the arthread is not he activated in always the same and the price is lower.

Offerged uses Bayer's highly the hydrochlor in

Officered uses Bayer's liq hydr hydrochlor in cases of symmorphica with good results. He gives 30 minims every two hours to days before menstruation. In menorrhagia, interstital myomata, etc. he used it symptomatically. He had good results in climatetric and preclimatetric hemorresults in climatetric and preclimatetric hemor-

rhages, in stagnation hemorrhage of a retroflexed uterus, in anamic hemorrhage, in hamorrhage diathesis, tuberculosis, nephritis, and virginal uterus G A WAGNER

Schrößer: A Case of Atresia Hymenalis with a I arge Epitheliocolpus at the Menarche (I in I all von Atresia hymenalis mit grossem glykosehal ugem Epitheliokolpos in der Menarche) Frauenarth.

1913 XXVIII 2 By Zentralbi f d ges Gynāk u Geburtsh s d Grenzgeb

The case concerns a girl 15 years of age who had not yet menstrusted and had to be estheterized frequently for retention of urine, the outer genitalia were well developed, the hymen was closed from all sides by a membrane with a median raphe which was examptic and firm An examination after emp tying of the bladder revealed a rounded tumor which reached to the umbilious and filled the entire small pelvis Uterus and adnexa could not be recognized Upon incising the hymen, about two liters of pus like thick creamy fluid emptied from the enormous Is dilated vagina, a procedure which left the patient purie cured. I xamination of the evacuated fluid showed vaginal epithelium, traces of blood very little mucosa and 26 per cent dextrose histologic study of the hymen showed multiple layers of pavement epithelium slight round cell infiltration and plasma cells with muscular fibers at the periphery and elastic tissue nearer the center The epithelial cells contained gly cogen The author thinks that the atresia of the hymen was of inflam matory origin, and emphysizes the importance of finding flat epithelial cells in the fluid In the new born this has been frequently found in cases of atresia, in the menarche however similar fluid has been found only twice. The presence of dextrose may be explained by the theory that from the glycogen, normally present in viginal epithelium grape sugar is produced by a ferment that is freed after desquamation by the autolytic destruction of the cells, and which the author was able to demon RITTERSHALS

Roysing: Gastrocoloptosis Ann Surg Phila 1913 lvu, t By Surg Cynec & Obst

The author has observed that enteroptosa is rue in men, and so very frequent in somen it must at most at most at considered a fermance disease par exect and that the second of the seco

over He has come, therefore, to regard Stiller's theory as at fault in the main, and to believe that the overwhelming frequency of prosis in women is due to two circumstances peculiar to them (1) their misuse of corsets and lacings and (2) the changes which pregnancy and childbirth involve in the intra abdominal pressure. The one causes an active subsidence of the subdianhragmatic organs and stretches and lengthens the suspensory ligaments while the other removes that support which the intestines when compressed by a vigorous abdominal wall offer the subdiaphragmatic organs While agreeing with Wolkow and Delitzin in their well known theory regarding support of the abdom inal organs it is evident that the abdominal wall, after many childbirths becomes like a sort of slack big into which the small intestines subside, then the stomach liver and kidneys not only lose their support but are dropped sucked and drawn down ward. Their power of resistance against this depends entirely on the firmness and solidity of the ligiments and peritoneal duplicatures by which they are attached to the diaphragm. If these are feeble thin and atrophied as with Stiller's degenerated type of mankind or lengthened by the use of corsets and lucing and the organs forced down, the ptosis proceeds rapidly

Rossing goes set further and claims that the constipation cardialgae emerciation, emesis, and nerious symptoms are not due to "degenerative asthenia" but explains them as "pains released and caused by the ptosis itself". As regards the path ogeny and symptomatology he distinguishes two forms the virgual and the maternal protos

In his discussion of treatment the author finds the abdominal linder of considerable support with the moderate propse of the maternal variety, and of least value in the surginal type. Of the volume representation of the vicinity of the constitution of the continuum minus he mode often technically impossible. Other indirect methods of raising the stomach (t offer s) give good results only for a relatively substitution.

Out of 256 pitients So were treated and where the cases have been truced the following results are presented. Complete cure 162 or 632 per cent, great improvement 33 or 128 per cent, improvement, 18 or 7 per cent slight or no change 32 or 128 per cent deaths 11 or 146 per cent

Where the gastrocolic ligament is considerably clongited the omenium and the mesocolon are both shortened. With attendant hepatoptosis hepatopery should always be performed simultaneously

CAREL CLIBERTSON

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Planchu: Extrauterine Pregnancy with Living Fœtus (Grossesse extra utenne avec fêtus vavani) Bull d I Soc d'Obst e d Gynée d Lyon, 1912 No 8, 904 By Journal de Chrurgte

In this case a right tubal pregnancy followed an 8 year period of sterility In the second month there was a threatened tubal abortion, with extrusion of a portion of the sac into the peritoneal cavity, and in the third month a more extensive rupture led to intraperitoneal hæmorrhage This runture involved the tubal sac, but the membrane with its feetal content continued to develop, half in the tube and half in the peritoneum up to the date of lap-The fortus though living had been so arotomy markedly compressed in the tubal sac that it presented very marked deformities which would have rendered it unfitted for life The diagnosis of the living fœtus had not been made because aus The operator cultation had not been employed performed a complete extirpation of the sac in place of marsupialization. The operation was marked by a serious hæmorrhage, but the patient recovered L CHEVRIER

Dóderlein and Herzog Pregnancy in an Adenomyoma Uteri—A New Type of Ectopic Gestation Surg, Gynec & Obst 1913, xv1, 14

By Surg, Gynec & Obst

After taking up briefly the theories regarding the implantation of the fertilized human ovum and then a short consideration of the structure of the adenomyoma the authors detail the features of this interesting case. The patient was 37 years old and had had four easy labors at term One year ago she miscarried in the second month of pregnancy, was not curetted and bled for one week After this she never felt well and complained of left inguinal pain and backache Menstruation was normal for 7 months but very profuse the Following this she became pregnant and missed three periods. In the fourth month pains and bleeding began and continued for eight weeks At this time examination revealed a tumor mass, stregular in outline and firm, extending to the umbilicus Vaginally the uterus appeared to be three times its normal size and crowded to the right by the tumor The cervit gaped open so that the uterine cavity was palpable Exploration with sound revealed an enormous depth beyond the fundus There was a foul discharge and tempera ture of 101° F Operation was undertaken two days later The mass was the size of a five months pregnancy a growth in the left parametrium, of fairly hard consistency with the enlarged uterus be

low and to the right This was removed by supra-

The uterine cavity proved to be empty Above the internal os an oval orifice admitting two fingers led to the left into the tumor, where a large cavity was found A placenta fairly well preserved almost filled this cavity with a few pus foci here and there Microscopic sections were made from the wall of the tumor and of the uterus Typical villi and fairly well preserved decidua were demonstrable, with considerable leucocytic infiltration. No bacteria were recovered Large and small gland snaces lined with cuboidal epithelium were found beneath the decidualike layers. The muscular tissue is composed of hypertrophied cells and fibers. pregularly arranged in bundles and showing a marked adema. The uterine mucosa shows a moderate hypertrophy, with complicated gland snaces resembling decidua spongiosa The inter stitial connective tissue resembles deciduauterine muscularis is in the same degree of hypertrophy as that of the tumor Inflammatory infiltra tion is also present here

From the macroscopic and microscopic examina ton of the specimen it appears that there was present an adenomyoma in the left tubal angle or below it. This tumor of course contained glandu lar spaces which were probably derived not from any embryonic inclusions originating from the Wolffan body but from the uterine mucosa. The form the very beginning or they consider the tumor from the very beginning or they may have tumor from the very beginning or they may have tumor into its subplance at a somewhat later period in consequence of inflammatory processes.

CARRY CLIBERTSON

Oldfield Ovarlan Gestation. J Obst & Gynec Brit

Emp. 1013 xuu, 41 By Surg Gyme & Obst. The patient was 31 years (a), had been married 12 years, and had had no previous pregnancy nor menstrual tregularty of May 1, 31912 the regular menstrual period was missed. May 17 she experienced sudden severe pain in the sacral region, according to a signal discharge of blood like according to the severe pain in the sacral region, according to the severe pain in the sacral region, according to the severe that the severe the sever

taken Dark fluid blood was found in the abdo-

men and soft friable clots in the pelvis. The left

ovary was enlarged and this with its tithe was removed The tube was normal. The ovary was slightly larger than normal and presented a small oozing depression on the surface Section showed many large blood-vessels about this area, some extravasated blood, a blood sinus, and one villus in An oval compact mass of lutein cells occupied one end of this depression. Among the clots in the pelvis was found a mole In this on section were found typical villi. The amniotic cavity was dis torted and compressed. The blastoderm was extruded from the amniotic sic and lay on the surface of the mole CARRY CHIREPTON

Croom · Pseudo-eclamosia Lancet Lond toxx. clxxxiv, 35 By Surg Gyner & Obst

In this paper the author presents a case which was sent into his charge at the Ldinburgh Royal Maternity Hospital as one of eclampsia The pattent who was a secundinara and seven months advanced in pregnancy, had suffered from fits of a severe character for two days, with very marked coma As there were no abnormal constituents in the urine the toxemia of pregnancy was eliminated and there being no indications from the eye reflexes nor signs of any paralysis the diagnosis was extremely dif The patient died, and as a result of the ficult necropsy a tumor was found of the size of a tangerine orange, lying within half an inch of the anterior end of the left hemisphere and opposite to the superior, middle and inferior frontal convolutions of the convex surface of the hemisphere and opposite those parts of the marginal and callosal convolutions which he above the anterior half of the corpus callosum The tumor consisted largely of layer upon layer of flattened dead epithelial cells Between these were to be found in the fresh condition, crystals of cholesterin Lesentially the tumor consisted of cholesterin with a supporting stroma of connective tissue upon which it lay The tumor was therefore a cholesteatoma

The author comments on the comparative rarity of the tumor and its long quiescence in that situa He describes a further case of meningitis which gave rise to pseudo eclampsia also there after giving a summary of similar cases that are to be found in literature on the subject and discussing the cases in which there was a difficulty in the

differential diagnosis of eclampsia LaVake Prophylaxis and Treatment of Eclamp-

sia J Lancet, 1913 XXXIII. 44 By Surg Gynec & Obst

Lalake here attempts only to sum up and emphasize the early symptoms and signs of toxemia culminating in eclampsia, and to give a routine method of prophylaxis and treatment. His conclusions are based on experience as assistant resident obstetrician to the Sloane Maternity Hospital New York

Next in importance to albumin he regards the blood pressure as an index approaching eclampsia

He would empty the uterus only for (1) the onset of convulsions, (2) albumin over 80 per cent, and (1) albumin over 50 per cent after 24 hours' treat He advocates nitroglycerin, it gr, every ment four hours for blood pressure over 150, with veratrum viride where the pulse is over 80, and chloral hy drate for rest and quiet when necessary Rapid induction of labor is opposed, and he prefers the Loorhees bag as a means in slow induction. When rapid delivery is imperative he prefers normal dilatation using varietal hysterotomy only where the child is viable where convulsions are occurring and where the cervix is long and hard. The author advises strongly against chloroform as an an aesthetic and against phlebotomy. In accordance with this latter view he recommends uterine tamponade after delivery in order to prevent hæmorrhage He further advocates that the infant he Lent from the breast until the mother's condition is normal CARRY CULBERTSON

Lieomann A Critical Study of Eclampsia and Anaphylaxis (Eklampsie und Anaphylaxic eine kritische Studie) Gynäk Rundschon 1913, 111 55 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

Eclampsia attacks robust, well nourished women, whereas the weak and nervous are attacked by anaphylaxis (Edema and albuminuria are present in the former, while an exanthema accompanied by fever are the symptoms of the latter If eclampsia were caused by an ingress of foreign albumin into the maternal blood from the placenta, then with each succeeding pregnancy the body would become more and more sensitive - it would be more fre quent in multiparæ than in primiparæ. Since the converse is true, the author concludes that the alburnin of the placenta which passes into the maternal stream in every pregnancy is not foreign albumin Eclampsia and anaphylaxis have nothing in common Eclampsia is an intoxication starting in the placenta Speedy delivery is the safest treatment because in this way the source of intoxication is eliminated

Zweifel The Treatment of Eclampsia (Leber die Behandlung der Fklampsie, eine übersichtliche Besprechung) Monatschr f Geburtsh u Gynäk, I HAXXX EIQI

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Zweifel offers a detailed review of the treatment of eclampsia historically considered Modern treatment begins with Schroder upon whose recommendation venesection was replaced by treatment with narcotics and diaphoresis Duhrssen's advance replaced this method by an active operative procedure demanding delivery of every eclamptic immediately after the first attack or if she has had several attacks as quickly as possible. According to these fundimental rules the author has treated in the years 1892 to 1893 80 cases with a mortality of 15 per cent from 1895 to 1901 with the same method 143 cases with a mortality of

OBSTETRICS 427

17 2 per cent, and from 1901 to 1910, 400 cases with a mortality of 18 5 per cent. Since exami nation of the blood has shown that it is less fluid the author has again introduced in his clinic, since 1010, the primary venesection at the onset of eclampsia, combined with Stroganoff's treatment Never less than 500 cc are taken, and in some cases the venesection is repeated With Stroganoff's method medicamentation per os must be avoided on account of the danger of aspiration pneumonia, and stomach may have to be aspirated Of 84 cases treated by this method 5 died or 5 o per cent Two died of aspiration pneumonia, one of septic peritonitis, and two of eclampsia. Of the entire number, the last 64 cases recovered in order fortal mortality in the 84 cases was 34 5 per cent against 30 per cent and 43 per cent in the former series Zweifel discredits the statistics compiled by Lienmann and Freund in favor of operative treatment, wherein the cases chiefly considered developed convulsions after delivery and where the high mortality (15 1 to 17 per cent) does not speak for early emptying of the uterus nor for the hypothesis that the toxins originate in the child or the placenta. The expectant treatment of eclampsia has further shown that the attacks cease and pregnancy, with living or dead child, continues, terminating in spontaneous delivery many hours, days, or even weeks later, with no subsequent convulsions Through his results are excellent, the author holds his method in reservation until some hundred cases shall have run a better course than those treated by operations EXCEPTION

Eichmann: Toxicodermia of Pregnancy Treated with Ringer's Solution (Schnangerschafts Toxicodermien durch Ringersche Losung geheilt) - Munch-n.

med Wehnsehr, 1913, lx, 183 By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

Rismann (1972) treated a such cases with intra miscular injections of Ringer's solution, and shortly thereafter Eichmann reported favorable results by injecting; not en into the gluteal muscles in three cases. Beades this, the patients are put on a vegetable die: Leahmann regards eclampsat, toxi collerma and nephritis of pregnancy as expressions to the almost and report of the procession of the solution of the almost price of the presection of the sidness of the sidness of the further formation of tours.

Kasishima: Active Treatment in Febrile and Septic Abortion (Zur Frage über die aktive The rapie bei fieberndem und septischem Abort) Beite F Göburisk u Gynak, 1913 xvm 73 By Zentralbl f d ges Gynak u Geburish s d Grenzgeb

The author reports the results of the treatment of abortion at the Sellheim clinic in Tubingen Of 121 to called "alebrile" women, 29 when cleaned out digitally proved to be febrile In the other 46 "tebrile" cases, where the temperature was over 37 of C before treatment, one half were manually and the other half instrumentally treated All and the other half instrumentally treated All

women recovered, 6s per cent becoming alcohile at once after the operation. The others had lever during the purperium, generally for two days 15 septic abortions 3 ded, too the control of the considered pecularly dangerous

HOLZBACH

Barrett Ovarian Tumors Complicating Pregnancy, Delivery and the Puerperium. Surg. Gynec & Obst., 1913, xv1, 28.

By Surg , Gynec & Obst.

In the consideration of this subject, Barrett seeks

reply to these questions

I Shall the ovarian tumor, discovered during pregnancy, be removed even though symptoms be absent, or only slight, or does obstetric conservatism demand the expectant plan of treatment?

2 Do the complications of delivery and the puerperium in the presence of ovarian tumor warrant an expectant plan of treatment?

3 Is there a certain period of pregnancy most favorable for operative procedure, for which we should wait, or which, if past, should compel the pattern to go to term?

patient to go to term?

4 Which more greatly predisposes to abortion

the removal of an ovarian tumor, or its presence?

5 Does the removal of double ovarian tumor.

necessatily result in abortion?

6 Should the abdominal or vaginal route be

7 Does tapping puncture, or induced abortion relieve a complicated situation sufficiently to warrant such procedure?

One hundred and fourteen recent cases have been collected for study in this paper, five of which were seen by the author These cases are reported in detail, and statistics from the literature are presented Of the 114 cases, 76 were operated on before term Three of the mothers died and but one of these deaths was due to the cochotomy Of the 63 who survived but 9 terminated prematurely Thirtyeight cases were treated expectantly, with these results One mother died before term, 7 were lost at term, 7 children were lost, of 6 Casarean sections at term 2 mothers were lost, of 7 cases unoperated, 4 mothers died of 7 vaginal ovariotomies at term. one mother died, of 3 vaginal punctures one mother died, 6 abdominal ovariotomies were performed during labor and 3 during the puerperium, in general, a maternal mortality of 18 4 per cent

As a result of his investigation the author offers the following conclusions

1 That pregnancy frequently takes place in the presence of ovarian tumors, even though both ovaries be involved

2 That with the onset of pregnancy we have two patients with one pathological condition, rather than one patient with two pathological conditions, each with claims upon their constitutional rights to "life, liberty, and the pursuit of happiness"

3 That the growth of the ovum produces such changes in position and structure of ovarian tumors as to make it a menace to the child and mother during pregnancy, that extra hazards occur during labor and are at their height for the mother during the nuerocrum.

4 That induced abortion with its one hundred per cent of child mortality is unjustifiable, in that it offers no corresponding improvement in the con-

dition of the mother

5 The early removal of the tumor as soon as possible after its discovery, gives a high percentage of good results in both mother and child and re moves the hazard during labor and the puerperium.

moves the hazard during labor and the puerperium 6 That abortion following ovariotomy any time during pregnancy is in proportion to the

damage already done
7 That tapping or puncture of the tumor shows
too large a mortality to make them justifiable pro
cedures, except as preliminary expedients in rare

cases

8 That the danger of abortion after double
ovariotomies is not sufficiently great to call for
other treatment than that accorded the single tumor

9 The results during the latter half of pregnancy are such as to warrant removal of the tumor rather than to let the patient continue to term the increased percentage of abortion being due largely ourcrassed damage retrievals to or during operation.

10 A patient in labor with a complicating tu mor should be placed in the most fastorible sur roundings possible and labor allowed to terminate, if unobstructed. This should be facultated by the use of forceps if labor is at all difficult and the tu mor located well above the pelvis position and man usl efforts may change a pelvic obstructing tumor

into an adominal non-obstructing one
11 Timors interfering with labor pains or located so as to obstruct the outlet or presenting toson, hemorthage, or supportion, thus offering
immediate abdominal complications may be deimmediate abdominal complications may be deferently to the complex of the country of the cou

parts well dilated, labor may be allowed to continue after the removal of the tumor 12 Vaginal Cæsarean section may be performed

in some instances with inertia.

Tay Aginal puncture of an obstructing tumor may rarely be permissible, but should be followed by vaginal or abdominal removal before or after labor, as puncture with non-removal shows high

mortality
14 In all operative procedures during preg
nancy great care should be taken in manipulations

of the uterus 15 The uterus shows such toleration however, that necessary handling even to stitching need not be feared 16 On account of the great risk of torsion and degenerations during the puterprium, an oiarian tumor should be removed as soon after labor as the patient's condition and surroundings will warrant If delay is necessary, the tumor should be dosely observed

CARY CTERESTON

McDonald Glycosuria in Pregnancy. Am Pract, 1913, xlvn, 14 By Surg , Gynec & Obst

That true diabetes is a rare complication of pregnancy is first shown by McDonald, who then quotes Brocard's experimental work showing that gly cosuria is much more readily induced in pregnant than in non-premant women Eschner's and Williams' reports are referred to in detail showing maternal and foetal mortality statistics. The author's indications for termination of pregnancy in diabetes are persistent loss of weight, evidences of toxymia not easily controlled, death of the foctus and increase in the amount of sugar in soite of treatment Because of the extremely high fortal mortality, he holds that the child is not entitled to the usual consideration. As a rule pregnancy can have only a deleterious effect upon the diabetes while the chance of producing a healthy living child is comparatively slight and a serious gly cosuma is a grave complication of pregnancy While the induction of labor is usually a simple procedure, it may involve considerable shock to the mother and precipitate diabetic coma The author's conclusions are

1 In diagnosis eliminate other reducing substances and transitory forms. Include only those persisting in spite of treatment or showing definite diabetic symptoms.

2 The prognosis is guarded in any case, and is bad in marked ones, both for mother and child

3 Interruption of pregnancy is advisable if the patient cannot be closely observed or if symptoms are not controlled by careful treatment

4 A woman who has shown definitely diabetic symptoms in one pregnancy is assuming an unwise risk in going through a subsequent one

CAREY CULBERTSON

Seeligmann Surgical Treatment of Uterine Hamorthage During Pregnancy, Delivery and the Puerperium (Die chrurysche Behandlung von Uterublutungen in der Graudeit, Geburt und Wochenblett) Foritär d Mrd. 1913, xm. 91. By Zentrüb! I d. ges. Gynik in Geburgh s. d. Grangeb.

The author advess spenar tamponers to extract un pleasate provide account of the possible and a commendate sumple procedure of teating the membranes and using the combined version of Braxton Hicks. When this is impossible because of Braxton Hicks. When this is impossible because of technical difficulties and in total placents pravale uses the metreurynier. This gives him a better prognosis for the child. In very difficult cases of prognosis for the child. In very difficult cases of contract the child is the contract the contract of the child in the contract of the child is the child in the child

In case of hemorrhage following premature separa ton of the platenta when the uterus cannot be emptied through the natural channel, Castream section must be thought of to save the hie of the mother. In atomic post partium hemorrhage secoromia and pututary extract are recommended of the newer temedies. In severe post-putum hemorrhage the author has used uterine douches with sesquichloride of iron and Momburg a apparatus under certain pressuations. He reports a case of total placenta pressua which was treated with the metreury inter and version.

Dienst: A Further Report on the Changes in the Blood During I changelia and Nephtitis of Prognancy (Neutre Mittelangen über Blütterknderungen bei der Fikinpase ind Schwangerschaftsurer im Gegenstiz zur normälen Schwangerschaftund über Massetzeit des vich duraus ütr die Theripie ergeben) Arch f Gradt, 1913 km zu ByZentrabli f der Grants ur Gebruths 4 Grenageb

Denst continues his investigations on the significance of fibrin ferment and fibringen in cases of celampsia and nephritis of pregnancy. Lausberg repeated some of the author s former experiments and arrived at conclusions at variance with those of the author, but Denst replies that his methods were not the same and that Lausberg's conclusions should not be accepted.

The present work deals with the plasma of 82 women, including 42 cases of eclampsia and 6 of pregnancy nephritis Normally, there is a decrease in the total albumins of the plasma during preg In all cases of the above named diseases that did not come on suddenly this decrease in total albumins is more marked. The nitrogenous substances that are not held by the albumins are un changed in amount Fibrinogen is most markedly increased in pathological pregnancies, while the amount of seroglobulin is decreased Normally there are 45 to 55 mg of fibrinogen in oxalate plas ma, but 60 to 75 mg during eclampsia. This is typical for eclampsia and is caused by a leucocytosis The decrease in total albumins in normal pregnancy is caused by an increase in the amount of water in the blood Zweisel has shown that the blood con tains less water and total albumins during eclampsia. The orderna has its origin outside of the kidney Dienst thinks the vessels are damaged by the fibrin ferment, which is the true toxic agent in eclampsia He isolated it chemically in nearly every case of eclampsia and nephritis of pregnancy It is absent during normal pregnancy and in the non pregnant The fibrin ferment, damaging the walls of the vessels, causes ordema, albummuma and therefore a decrease of albumin and an increase of fibrinogen changes are absent in acute cases, for here the fibrin ferment overfloods the blood and leads to a very pronounced fibrin formation which provokes the acute eclamptic attack. In 7 acute cases of eclampsia the total albumins and the water content of the blood were quite normal and the fibrinogen

only slightly increased. When the fibrin ferment

is present there is a decrease in the production of antithrombin by the liver During the height of the attack the latter is entirely wanting, although it is present in the plasma during normal pregnancy. The true cause of eclampsia is the insufficient production of antithrombin and the ensuing overproduction of thrombin The fibrin ferment comes from the placenta, and on this account we find eclampsia only during pregnancy, especially toward the end The attack is precipitated as soon as the thereof ubrin ferment reaches a concentration sufficient to make fibrin from the fibringen These conditions are tipe when fibrin ferment is to fibringen as 1 215 In the treatment the author advises Stroganoff's narcosis, free venesection, and the hastening of labor Hirudin can replace the antithrombin, but on account of its toxicity should only be used in critical Drinking of acidulated water is a prophycases lactic

LABOR AND ITS COMPLICATIONS

Jacoby. Pitugiandol in Labor (Pitugiandol als Wehenmittel) Zentralbi f d ges Therap, 1913, xxxi, 1 By Zentralbi f d ges Gynäk u Geburtsh s d Grenzgeb

The author bases his results with pituglandol in labor on 20 cases in his private practice. There were 12 births at term, 2 deliveries in the eighth month 5 artificial abortions and one premature delivery In the first group of 12 cases the result was very satisfactory, including one threatening eclampsia and one breech presentation. Forceps were required five times. In the second group placenta prævia appeared twice, with one bad and one good result. In the third group, a case of premature delivery with fever and spontaneous labor resulted fortunately, but in the 5 cases of artificial abortion no second stage of labor could be effected After a subcutaneous injection of 1 1 cc strong labor pains set in, lasting regularly for about 3 hours In 4 cases two injections were made, and the increased severity of the pains was quite conspicuous Injuries to mother or child were not According to the author's view, pituobserved glandol is a harmless remedy (1) for overcoming primarily or secondarily weak pains, the influence being most noticeable shortly before the second stage of labor, (2) for accomplishing delivery more quickly in cases where the mother's condition is not good. (3) for quicker expulsion of the feetus in premature delivery GRÄUPVER

Hartung A Case of Dementia Paralytica in Labor (I all von Dementia paralytica und Geburt) Desitiche med Wehnicht, 1913 xxtix, 72 By Zentralbl f d ges Gynak u Geburth s d Grenzgeb

As a supplement to the article of Lowenhaupter (Detatiche med Wichnicht, 1912, No. 36) Hartungs reports the history of a patient where a typical dementia paralytica developed during pregnancy. There were several remissions after delivery, as a result of which the disease was much protracted, ending in death six years later. Autopsy showed evidence of an old pachymeningitis. Sixon.

Rieck. Occlusion of the Rectum after Delivery in a Case of Rachitic Pelvis (Darmverschiuss nach Enthindungen bei plattem bzw rachitisch plattem Becken) Zentralbi f Gyndk 1913, 1231 119 By Zentralbi f d ges Gynäk u Geburts h s d Grenzeb

The patient was a primipara 30 years old, on whom a transperitoneal Casarean section had been performed on account of a rachitic deformity of the pelvis. On the day following the operation the large intestine became distended with gas. Inc. mata, etc., were without avail, and on the third day symptoms of peritoritis developed. Rectal examination with the patient lying on her side crused the elimination of gas and faces Obstruction of the rectum between the uterus and promontory was easily nalnated on digital examination. The author suggests the following procedure Thorough clima nation, with the patient in side position, then the nuncture of the colon with a hypodermic cannula The patient is in knee elbow position for the operation, and digital examination serves as a control

Jaschke. The Use of Narcophin in Obstetrics (Ueber die Verwendung des Narkophins in der Geburtshife) Manchen med Hehnseln 1913, Ix,

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb Jaschke reports 45 cases in which he injected narcophin in doses of 0 03 (1 ampulla of morphin narcotin meconati) for the purpose of lessening the pains during labor. It has many advantages over other remedies, such as morphin, pantopon, etc If one injection does not effect complete amnesia, it certainly relieves the pains in so far that even very sensitive persons are well satisfied. No bad after effects for mother or child have been noticed two cases there was no result. In its ideal effect narcophin produces an agreeable relaxation, and after half an hour the pain decreases distinctly so that the women utter no more cries Only exceptionally is there a decrease in the activity of the I.BELER labor

PUERPERIUM AND ITS COMPLICATIONS

Asch: The Operative Treatment of Puerperal Sepsis (Zur operativen Behandlung puerperaler Sepsis) Berl klin Behandlung 1, 1913 i, 134 By Zentralbi f d ges Chir u i Grenzgeb

Recuse of the unaccessibility of conservative through, the author recommends the abdominal radical operation and the ligation of the vena according to Trendlenburg. The removal of uterus adnexa, and parameters inflitrate has given good results only in those cases in which a longer interval has passed by since mustally failed. In these the singuistic particular and
In a case of severe puerperal sepsis, in which a left sided thrombosis of the spermatic veins was diag nosed, the author proceeded as follows he opened the abdomen to explore the peritoneal cavity and was able to demonstrate only slight adhesions around the left tube and ovary The right side was per-The thrombus extended from the left parametrium to the kidney. The peritoneum was now closed in the midline and freed laterally till the thrombus was exposed The central ligature on the spermatic vein which had to be applied close to the opening into the renal year, cut through and necessitated a suture of the renal year to stop the free The freeing of the thrombus with its hæmorthage periphlebitic deposits led deep into the parametrium as far as the wall of the uterus Next the retro peritoneal wound cavity was tamponed and the tampon led to the exterior by a lateral incision through the abdominal wall. After reopening the perstoneum in the midline the left adnexa were removed intraperitoneally and a wedge shaped piece of the uterus in which the thrombosed veins lost This mass was removed together with themselves the extraperatoneal thrombosed veins, the resulting slit in the ligamentum later was closed and the abdominal cavity completely closed. After free drainage through the lateral opening the complete recovery of the patient occurred

MISCELLANEOUS

Murlin Some Observations on the Protein Metabolism of Normal Pregnancy and the Normal Puerperlum. Surg. Gance & Obst., 1013 xv1, 43 By Surg. Gynec & Obst.

xv., 4.3 By Surg, Cyme & Obis.
In three normal cases, two primipare and one
tripara the distribution of introgen and sulphur in
the urine was studied by current methods of
analysis. The patients were kept on carefully
controlled their sund the unner were collected contention of the control of the control of the contention of the control of the control
prepared in the conclusions teached were as

follows

1 The percentage distribution of the nitrogen
and sulphur fractions of the urine was very nearly
the same in the ante partum and post partum
periods

2 The total nitrogen in the urine shows a sudden increase independently of the nitrogen in the food, at about the sixth or seventh day post partum
2. The nitrogenous autolities readucts from the

at about the sixth or seventh day post partum

3 The nitrogenous autolytic products from the
uterus are for the most part converted to urea before
excretion

4 The ammonia nitrogen is slightly higher in the ante partum period than in the post partum period

period

5. The urea plus ammonia nitrogen in the antepartium period is lowest in percentage of the total nitrogen, when the retention of nitrogen is probably greatest. This confirms the idea, expressed else where for the dog that the nitrogen held back for growth of the product of conception is potentially

urea or ammonia nitrogen

6 The formel titrating fraction is the same after delivery as before

7. The creatinin nitrogen is higher, both relatively and absolutely, before delivery than after, the creatin nitrogen higher in both senses after delivery than before There is no indication in the urine of hepatic inefficiency in late pregnancy in the urine before delivery may indicate a lack of carbohydrate in the food, after delivery it is always present during the involution period

8 The NS ratio in the urine of these patients was slightly higher than is usually found on an adequate diet Because less food was ingested immediately after delivery than before, the ratio

was higher in the post partum period 9 The morganic-sulphate sulphur was lowest in

percentage of the total sulphur where the retention of nitrogen was (probably) greatest, and highest where the retention was least The neutral sulphur was least in percentage where the retention was least but, owing to indicanuria, was not greatest where the retention was greatest

10 A high percentage of neutral or unovidized sulphur does not indicate diminished oxidation in

the pregnant subject

II The distribution of the sulphur fractions indicates that the sulphur which is excreted as morganic sulphate is the sulphur held back for foetal development

Mayer Some Rare Forms of Contracted Pelvis (Ueber einige seltene Formen von engem Becken) Beitr : Geburtsh u Gyndh 1913, xvin, 53 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Mayer describes four pelves

A pelvis after the performance of two hebosteotomics After the first sawing through osseous healing occurred and the pelvis remained the same After the second operation however only connectivetissue healing took place and the pelvic ring remained permanently enlarged, thus securing a considerable improvement as a result of a different method of bony union Five and one half years after the second hebosteotomy spontaneous delivery occurred though the head of this child had a greater circumference than that of the former

2 A pelvis after two hebosteotomies After the first union it was smooth and osseous and the pelvis functionally unchanged, after the second operation the bone united with a slick callus on the inner surface whereby the pelvis became con siderably narrower though the conjugata diagonalis was increased At the next delivery Cæsarean sec tion had to be performed. The endeavor should be to gain therefore a connective tissue union after hebosteotomy Disturbances in the gait need not be feared because the pelvic ring is separated only unilaterally The character of the bony union depends probably on age of patient whether fully grown or not, on constitutional and local influences, on the width of the gap in the os pubis fixation of free ends in healing, and on hamatomata infections etc.

3 A pelvis narrowed by traumatic fracture of the acetabulum and central luxation of the head of the femur, which is functionally similar to the Chrobak pelvis The mechanical difficulties in labor may be surprisingly slight, however, as an analogous case shows Though the area of the acetabulum protruded 4 cm into the pelvis, a child of 4000 gr was born in a primipara, the second stage lasting only 11/2 hours The anterior parietal bone is held back a little, like the posterior in a rachitic pelvis

4 A typical flat rachitic pelvis with luetic changes in the bones The pelvis is rachitic with a slight protrusion of the symphysis as in osteomalacia, a narrow pelvic outlet, and a peculiar roughening and thickening of the bones first is explained as a syphilitic softening and the latter as periostitis luetica The Wassermann reaction determines syphilis, the saber sheath tibia being strongly suggestive as well Casarean section was done for the eighth delivery, after seven children were born per vias naturales, four of whom are living

Leavitt Moderate Degrees of Pelvic Contraction and Their Obstetric Problems. J Am M Ass, 1913, lx 4 By Surg . Gynec & Obst

In generally contracted or simple flat polvis, we are sometimes unsettled as to whether labor should be induced a few weeks before term, the forceps relied upon, publictomy performed or abdominal section made Cramotomy should never be necessary when reasonable facilities are at hand for doing clean With a true conjugate of 7 cm a Cæsarean section is absolutely indicated, but when the true conjugate measures 9 cm we may easily err in the choice of methods. In Leavitt's experience with high forceps and Casarcan section, the former has exceeded the latter in mortality

For convenience pelvic contractions are divided into two degrees - absolute and relative the former contemplates therapeutic abortion or Cresarean section at term With 7 cm true conjugate as the dividing line, it was found in the Schauta clinic that no spontaneous births took place and that inter vention was required in 85 per cent of those having a true conjugate of 7 5 cm 75 per cent having 8 cm, 50 3 per cent having 9 cm and 24 4 per cent having a true conjugate of 95 cm. Every pregnancy complicated by a contracted pelvis is a law unto it-When and why one procedure is better than another cannot be answered dogmatically

LEG DRIAN

Rotter The Treatment of Narrow Pelves (Verfahren zur Heilung enger Becken) Zentralbl f Gynak , 1913,

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Rotter performed a resection of the promontory in a case of generally contracted pelvis with a con-jugata vera of 7 8 cm. The patient had had a number of miscarriages, and was not pregnant at the

time of operation. The peritoneum of the promontory was incised 6 to 7 cm, the subperitoneal fat. etc. was pushed aside, and the median sacral artery was ligated 2 cm above the promontory With a 4 cm chisel the promontory was removed, the subperstoneal fat and perstoneum were approximated, and the abdominal incision closed. Heal-

ing took place by first intention In this operation a part of the lumbar vertebra. the intervertebral ligament, and a portion of the The periosteum first sacral vertebra were removed being removed with the bone, callus formation is prevented A piece of bone 2 cm thick can be re moved without any danger. It is advisable to operate when the woman is not pregnant part, etc., are not affected by the operation.

WALTER HANNES

Kehrer Preliminary Report on Exact Measurement of the Pelvis by the X-ray (Vorlaufige Mitteilung zur exakten rontgenologischen Beckenmes

sung) Zentralbl f Gynak, 1913, xxxvii 55 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author reports that he has been working with Desauer, in Frankfort, on the problem of measuring the pelvis by means of the X-ray More exact reports will follow the completion of the work method of measuring is simpler and more exact than that given by Hanisch, permitting measuring of the conjugata vera within a millimeter when the promon tory and symphysis appear sharply on the X ray plate MUELLER

Martius A Monstrosity with Persisting Cloaca, Rand-like Ovaries, and Other Genito-Urinary Defects (Ein Fall von persistierender wahrer kloake mit bandformigem Ovarium und anderen seltenen Missbildungen im Urogenitalsystem) Frankf Zischr f Pathol 1913, xu, 47 By Zentralbi i d ges Gynak u Geburtsh s d Grenzgeb

The case here reported appeared first as a breech presentation labor coming on during the seventh month of pregnancy and resulting in dystocia. In an attempt to pull the trunk through the birth canal the legs were torn off The distended abdo men of the foctus was opened and the birth com pleted Near the pelvis a cystic tumor the size of a fist proved to be a true cloaca, both colon and ureters emptying into it. The left kidney was displaced and adherent to the right. The right ureter emptied into the right side of the clorca the left was obliterated but attached to the left wall of the cloaca A 6 cm broad band of tissue on the posterior abdominal wall proved to be the ovary The uterus was 1 cm long and the left tube ended blindly The external genitalia looked like those of a male (pseudohermaphroditismus femininus externus) The aorta branched atypically, and pulmonic stenosis with atrophy of the right ventri cle existed Another anomaly was the entire absence of the fifth and sixth ribs. BERRERICH

Haberle: A Case of Double Deformity (Fin Fall you Donnelmissbildung-Dicephalus tribrachius) Beitr t Geburish u Gyndk, 1913, xviii, 39

By Zentralbl f d ges Gynak, u Geburish s d Grenzeeb

Haberle gives a detailed description of the mon-

ster Upon a common strong trunk are two nor mally developed heads with two well developed The circumference of the right head is necks 3412 cm, of the left one 33 cm The face of each head is directed forward so that the lateral surfaces of the skulls are opposite each other. The right and the left arm are normal, the middle arm shows distinct traces of fusion, such as a broad, thick humerus and two radu, a normal ulna, three normal fingers, one rudimentary index finger, and two thumbs The scapulæ and clavicles are well developed In the formation of the shoulder joint only the scapula of the left child participated Spinal column, os sacrum and coccyx are double The outer ribs are completely developed and united in front in a broad, simple sternum. The ribs between the two spinal columns are deformed. To the right from the right os sacrum and to the left from the left os sacrum are normally developed pelvic bones, which unite normally in front to form the symphysis The lower extremities are perfectly normal. Thymus thyroid gland, and all organs of the chest are double. Both pericardia are exten sively adherent to the median surfaces and the anterior thoracic wall Portions of the liver, pancreas and stomach project through a gap in the diaphragm into the posterior part of the thoracic cavity They are free of peritoneal covering There is one large fiver and two gall bladders. The pancreas and stomach are double in the left foctus normal in the right one rudimentary, as is the right exophagus as well Except for the duodenum. the intestines are singly developed. One spleen and one right horseshoe kidney are found with double suprarenal capsules On the right side is one ureter The left kidney is missing. The genital organs are male single, and perfectly normal. The delivery of the monster, which weighed 4000 gr, was spontaneous the head of the right foctus coming first in face presentation then the trunk and then the The death of the foctus occurred intra partum There had been no previous deformities in the family and the mother had alreads given birth to two healthy children HARM

Sarateanu and Velican The Wassermann Reaction During Pregnancy and the Puerperlum (Die Wassermannsche Reaktion in der Schwanger schaft der Frauen und bei den Wochernnen) 310 notsche f Geburtsh u Gynak 1913 xxxvu, 89 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Sarateanu and Velican of the obstetric clinic of the Maternity Institute in Bucarest, have examined the blood of 27 women (5 during pregnancy and 22 during the puerperium) and in one the cerebrospinal fluid and draw from the results the following conclusions The Wassermann reaction is a very effective method for diagnosticating and ascertaining lues in obstetrics However, the reaction fails to give in every luetic gravida and puerpera an absolutely positive result. An absolutely positive result indicates lues with certainty, even when manifestations are missing, but a negative result does not justify a presumption to the contrary With missing or uncertain luctic manifestations the result is generally negative. The Wassermann reaction proves that the maceration of stillborn or prematurely delivered foctuses is luetic in most cases The number of premature deliveries with specific characteristics effects a lowering in the intensity of the reaction in general, but without having a definite, regular influence upon it A review of the hterature concludes the work

Lithopedion Presentation of Specimen, Report of Operation. J Tenn S M Ass , 1913, By Surg , Gynec & Obst v, 351

The author reports a case of lithopedion which he removed The specimen is that of a foctus of seven months' development and completely calcified The features are well preserved and every part can be recognized The calcification has extended to the placenta, so that the entire mass is almost as solid as stone Eight years ago the patient missed her periods for seven months, during this time having all the symptoms of normal pregnancy, when labor pains came on, lasted a number of hours, and ceased She had none of the usual symptoms of rupture of ectopic pregnancy She lived in comparative comfort, marrying twice afterward, and finally consulted a physician owing to a marked constina-The operation showed the lithopedion free in the abdomen except for adhesions to the fundus of the bladder, the anterior parietal wall and a long band to the omentum A careful examination of the uterus, tubes, and ovaries revealed nothing abnormal, or any evidence of its original attach ment The patient has been in good health since the operation C H DAVIS

Reder: Complete Absence of Milk in the Primipara Am J Obst , N Y 1913, Ixva, 66 By Surg , Gynec & Obst

Reder tells of three primiparæ between the ages of 26 and 32 in whom no milk appeared after labor All had instrumental deliveries, and nursing was tried at regular intervals. In two cases no colostrum could be expressed from the breasts One of these two had the same findings after a second labor One

woman had colostrum at the time of labor and had no milk reaction after delivery, and there was no family history which explained this rare occurrence The women were said to be otherwise normal

N SPROAT HEANEY

TORGGLER

Hartel Salvarsan in Chorea Gravidarum (Salvarsan bei Chorea gravidarum) Munchen med Wichnschr , 1913, lx, 184

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb Because of the good results of Sahnger and Szametz with salvarsan in chorea minor, the author injected o s intravenously a patient pregnant 7 months who had chorea gravidarum and in whom the Wassermann reaction was negative. On the fourth day after the injection the patient began to improve and on the fifteenth day she was well Two months later the woman, then in the last month of pregnancy was presented to the Gynecological Society

Weinberg Sex Determination in Man (Zur Frage der Vorausbestimmung des Geschlechts beim Menschen) Bettr z Geburtsh u Gynäk, 1913, xviii, 147 By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

This article is in reply to one by Schöner (Beitr. z Geburish u Gyndk 1012, xm, No 2) Schoner cannot predict the sex of the first child According to his analysis in families with two children the second child must be of the same sex as the first one if the second pregnancy belongs to the sixth period of ovulation Such is the rule in half of his observations With respect to Schoner's theory. the author considers only this one sixth Of 94 cases, though 44 were of different sex Lest cases of premature delivery might disturb the theory. they have not been used Those cases which conform to the theory may also be based upon error Binovular twin pregnancies are explained as physiologic exceptions by Schoner, because he cannot bring them into unison with his theory statement of Schoner, that of the ovules of one and the same sex two thirds should be present in one ovary and one third in the other, is incomprehensible, as is that of the sex selection with such regularity by the maturing ovule Schoner further pays no attention to many sources of error, for example, that two ovules may be fecundated without proved twin delivery, that ovulation may continue during pregnancy, etc. Weinberg contends that conformation of Schoner's theory is correct in part only, since his prognosis is incorrect

GENITO-URINARY SURGERY

KIDNEY AND URETER

Beall: Subcutaneous Rupture of Kidney. Med Rec., 1913, Ixxxii, 64 By Surg., Gynec & Obst

Injures of the kidney are not common Kuster, in 7740 injures at his science at Basel and Berlin, saw only 10 cases, and of these only one was an open wound In 2600 autopases following injuries there were 13 in which the kidneys were damaged, 1 only long of a penetrating nature Isael records only 1 operative case I have analysis of Keen's 155 cases shows 159 guissoft wounds, 8 penetrating wounds ITS autocutaneous ruptures, 2 partial nephrectomies from rupture, 6 traumatic hydronephroses, and 2

ruptured ureters

Subcutaneous runture is the most common form of kidney injury and occurs more often in men than in women Of 200 cases collected by Kuster 281 This great difference, however, is occurred in men easily explained by the greater exposure of men to injuries of all kinds However Kuster says that in loin injuries the greater mobility of the Lidney in women is also a factor Rupture of the Lidney is, as a rule, the result of direct violence Kuster, in his experimentation on the mechanism of the production of the injury, tries to show that in most cases it is due to the effect of a force (h) draulic in nature) acting through full vessels and a full pelvis causing the kidney to burst along the lines radiating from the hilum in the direction of the tubules In crushing injuries, laceration by direct impact of a rib may occur and still more uncommon is rupture

by muscular action alone The symptoms are general and local, primary and secondary The primary general symptoms are shock and hamorrhage The primary local symp toms are pain, tenderness swelling in the region of the kidney, and hæmaturia. The pain is dull and deep seated, but the passage of blood clots along the ureter may cause paroxy smal attacks of acute pain As perirenal extravasation ensues the pain becomes more diffuse and the swelling increases If the peritoneum is torn, symptoms of acute peritoneal irritation will be added to the picture, though we may get these symptoms on the affected side from the retroperatoneal irritation alone Hamaturia is the most valuable of the local signs, and this with pain, tenderness and swelling in the loin leaves little doubt as to the diagnosis Hamaturia occurred in 65 of 71 cases tabulated by Maas and in 18 out of 26 cases reported by Morris It comes on soon after the moury, varies in intensity, and may last from a few hours to many days

The secondary general and local symptoms are

due to changes that take place in the kidney and perirenal tissues from infection or reactional proesses following the injusty and extravasation of blood and unne Infection may take place into the bladder, or through a weakened intestinal will or through the blood stream. The injury of the kidney itself may lead to infection with localized abscess formation or a unlateral chrome neighbrits. Anuran has been noted, even where the injury was unlateral and of shight degrees.

In rupture of the kidney the chief immediate danger is hemoritage and the most important lite danger is infection. The prognosis depends upon the degree of the injury. In 100 cases collected by Grawitz, \$8 recovered. In 14 instances the primary harporricing, caused death in 9 supportations of the kidney, and in 3 anutra. Of Kister's 506 cases, 322 were uncomplicated and had a mortality of 34 per cent. The prognosis is much more grave in children. Mass' figures indicate a mortality of \$8 per serior.

cent in children under 10 years

Many cases of rupture of the kidney recover spontaneously. In the absence of shock, with only a slight hermaturus and a moderate amount of local sheding rest in bed may effect a cure Excessive pain may be relieved by anodynes and strapping of the parts. Medication is of doubtful value in controlling the hermorrhage Rest in bed should be principled, as the hermorrhage is tikely to occur Immediate operation is undicated when the hermatural configuration of the principle of the pr

The nature of the operation must depend upon the conditions found. The indications are to control the harmorrhage in some way and to provide a means of egress for the extravasated fluids. Extensive laceration or injury of the larger renal vessels

will necessitate nephrectomy

Except in mild cases, early exploration gives the best results Delibet collected 319 cases, of which 22, were treated without operation, with 103 deaths In 30 cases the kidney was exposed, with 2 deaths In a4 cases nephrectomy was done with 11 deaths Watson's tabulation furnishes the following Of 273 cases treated expectantly 35 following Of 273 cases treated expectantly 35 exercises of the control of the control of the control exercises of the control of the control of 11, treated by explications 25 died, mortality 22 per cent

Except for cases of mild degree, early operation for rupture of the kidney must be considered a life-

Plummer: Dystopic Kidney. Surg., Gynec & Obst., 1913, XVI, 1 By Surg., Gynec & Obst.

The writer of this article gives a resume of the subject, devoting attention principally to its chinical aspect, but also referring to the anatomy and pathology of dystopic kidney

He adds 17 clinical cases to the 67 reported by Strater in 1906, and makes a critical study of the 84 cases thus collected He also describes 4 labora tory specimens and gives illustrations of the same

Definition. By dystopic kidney renal dystopic, or congenitally misplaced kidney is meant a condition in which the kidney is abnormally situated in the body, never hiving occupied its normal position. Anatomy In size, the dystopic kidney is general

ly approximately normal, although sometimes it is found to be considerably less—its shape is often modified by its abnormal location in the body

Its most striking anatomical pecuharity is its vascular supply which always originates from a point lower than the normal and is usually a liberal nor two or more arteries and vients bung the rule. The arteries have been found to arise from the lower portion of the aorts the common likar the internal likar (hypogastric) the median sacral and the inferior mesentene artery.

The ureter is generally shorter than normal The adrenals are found in their normal locations not accompanying the kidneys in their dystopic loca

The location varies within wide limits from a position slightly below normal to one entirely within the small pelvis. The misplaced kidney is usually found on the side where it normally belongs but it may be on the opposite side.

Defects in the genital organs of both sexes of the bladder, and of the rectum have been noted in

cases of dystopic kidney

Pathology In the majority of cases the mis placed kidney is normal in structure, but it may be subject to any of the pathological conditions found in normally placed kidneys being especially prone to hydronephrosis or pyonephrosis Calcilus, sarcoma, tuberculosis, and cystic degeneration have been found

Clinical manifestations The symptoms caused by a musplaced kidney, otherwise normal, are most frequently similar to those caused by disease of the uterine adness, but sometimes the symptoms are referable to pressure on the rectum or bladder in pathological conditions of the misplaced kidney there are found, in addition, the symptoms ordinarily accompanying those conditions

Datapoirs: In cases otherwise normal, palpruino is of great value \(\) a rule a dystopic kindney is but slightly movable, in contradistinction to floating kindney. Catheterization of the uncertes may reced a full reference in lengths in the two urreiers. The assistance Mayhacet kindney is more common to the left side, while movable kidney is more common on the right side. If the kidney is exposed by opera-

tion, the most decisive finding is the abnormal vascular supply Accompanying defects of the genital apparatus are suggestive of dystopic kidney

Differential diagnosis Distoric kidney is most frequently mistaken for a tumor of the admess especially an ovarian cyst if pyonephrotic it may be mistaken for a pus tube Cases have been mistaken for arcinoma of the bowel, harantometra, appendictits, pericy situs, rttopiritoneal cyst, or tuberculosis of miss interne clands

Treatment It is well to consider separately the cases in which the indiney structure is normal and those in which a pathological condition of the dystopic kidney is present. In the dystopic kidney is has been found to be solutary in a number of cises, it is imperative to determine the presence and functional capacity of the second kidney.

In pathological cases the treatment must be the same as in similar cases in normally placed kidneys, the method of approval in operative cases being modified so as to adapt it to the abnormal location of the kidney. In cases where the kidney is normal in structure no operative interference is indicated unless the 33 mptoms are of considerable see, enti-

If the uterine adnexe are diseased in such a man ner as to make their removal proper, confine the operative interference to the adnexe. On many cases all symptoms will disappear, if not, the kidney may be dealt with later

If operation on the kidney itself is required the operation of choice is dislocation of the kidney and rumplantation in a location where it will not be a mechanical hindrance. Aephrectomy should be a last risort. Ventral laparotomy is the best method of approach in operative procedure on a normal dystopic kidney.

V dystopic kidney, if located in the small pelvis, may cause disturbances of pregnancy and parturition. In most cases delivery can take place without operative interference. The management of dystopic kidney complicating pregnancy and parturition is summed up as follows.

If discovered at the beginning of pregnancy laparotoms, discovered later, consider the advisability of the induction of prima trie labor. Do not remove a normal kidney shortly before or during labor. If discovered after labor has begun a pathological kidney may be puncted to allow delivery, nephrectomy to be done after the purperson. If, during partitution, delivery can not rike place without injury to mother or child, either in case of a dead child, perform craniotomy, or, in cise of a living child, Cesarean section or an operation to widen pelvis.

Kretschmer Unilateral Kidney Hæmorrhage with Reference to So-called Essential Hæmoturia. Surg., Gynes & Obst. 1913, xv. 34 By Surg., Gynec & Obst.

This article embraces a detailed report of a case of painless renal hamaturia which might easily have been erroneously classified as one of so called

essential hematuria. The author calls attention to the fact that these cases of so-called essential hematuria really have a pathologic basis. In the histological report all excessed pieces of kidney in this case showed the presence of nephritic changes. A careful consideration of the literature revealed various lessons, not only of the kidney but also the renal pelv is in cases of so called essential hematuria.

The author's conclusions are

I Unitateral renal hæmaturia does not always mean unitateral discase, as one may be dealing with a bilateral lesion, although only one side may be bleeding at the time of examination.

2 Absence of albumin and casts in the unine does not exclude the presence of nephritic changes in the kidney

3 Cystoscopy and ureteral catheterization must be employed in each case to determine definitely the renal origin of the blood 4 Histologic examination of several pieces of

excised tissue, or preferably of the entire kidney, must be made in every case before a diagnosis of essential hamaturia can be made

5 Cultures of catheterized specimens of urine from each kidney, to determine a possible bacterial cause for the hamorrhage, must be made in all obscure cases

A bibliography of 72 numbers is appended

Truesdale Unilateral Hæmatutia in Chronic Nephritis. Boston M & S. J., 1913 chrvm, 156 By Surg., Gynec & Obst

Truesdale reports two interesting cases of unfateral harmatura in chronic nephritis. The first case was that of an old lady of 20 years who noted harmatura of sudden onest associated with no other symptoms. Ureteral catheterization revealed the right kadder as the source of the harmorthage. No medicinal treatment had any inducence upon the bleeding until serum from a rabbat was injected, when the harmorthage topped for three days. Nine months after the onset of the condition a nephrectomy was performed. The condition a nephrectomy as performed. The condition an expheric topped the control of the condition and production of the condition and productions. The patient died a year after operation from until miles.

The second case was that of a man, \$2 years of age, who for 30 years had been exposed to be effects of lead and had at intervals shown moderate symptoms of plumbism. The onest of hemitura was sudden and profuse. Lafer, for a many color to the trace. Victorial contents and profuse. Lafer is important to the trace. Victorial catherinarian also revealed blood in quantity from the right had ner, while from the left there was no blood although there was a trace of albumin, with many exists of all virtuets. In this case, the reprise for six months around a profuse of the right of the of the

J S EISENSTEDT

Pettis: A Case of Neoplasm of the Remains of the Wolffian Body Simulating Hypernephroma. Phys & Surf, 2013, ETV, 27 B) Surf, Gymc & Obst.

The patient entered the University Hospital complaining of a mass in the left side and nam in the right side. Nine months previously she had had an attack of jaundice accompanied by nausea and vomiting The unne was highly colored but there was no pain or clay colored stool. This attack lasted about three weeks, and after the attack the patient felt well for about six months. Then she first noticed a mass in the left side just below the ribs, and she also experienced nair upon lying on the left side Shortly after these new developments she experienced a severe sharp pain in the right side below the ribs, which radiated to the right side of the back and the right shoulder She began to have fever, and the pain and fever continued up to the time she entered the hospital. The national lost about twenty pounds in the six months previous

to her coming to the hospital The physical findings were significant The patient was a woman of medium build sallow complexion slightly icteric, and somewhat emaciated. Noth ing of importance was found in the chest except a high liver dullness In the abdomen were two distinct masses. On the left side a mass extended about three angers below the costal margin, it had no definite edge and could be felt distinctly in the The mass on the right side extended from the costal marian downward as far as the umbilicus and a little to the left of the median line. It had a definite edge and felt like an enlarged liver masses descended on inspiration Catheterization of the ureters was attempted It was successful on the right side, but the catheter could not be passed into the left ureter, nor could urine be obtained from that side Laboratory andines were negative except for a slight secondary anæmia and a leucocy-

hypernephroma with liver metastases. Explanatory operation re-stelled a very large liver, containing many nodules (apparently malignant metastases). On the left sloed, beneath the spleen metastases of the left sloed, beneath the spleen bead. It was apparently cystic in nature. An opening was made in the lumbar region and more than a quart of what appeared to be altered blood was evacuated. The opening of the cyst was attached to the edge of the meason in the back and within the first x a houge some the property of the cystic was attached to the edge of the meason in the back and within the first x a houge some the present died within the first x a houge some properties.

tosis of 17,800 The most likely diagnosis was a

Post mortem showed multilocular cystadenoms, with pseudomucia, near the left kidney, precisely of the nature of ovarian cystadenoma. It represented a Wolfam body teratod cyst A portion of the cyst showed transition of the cells from a benign to malignant type. Metastasse were found and also in the splice in lung, and retropersioned and also in the splice in lung, and retropersioned and also make the splice in lung, and retropersioned and also make the splice in lung, and retropersioned and laws in Standard Stan

Braasch: Clinical Data on Malignant Renal Tumors. J Am M Ass., 1913, lx, 274 By Surg., Gynec & Obst

The surgical records of 5t Mary's Hospital, Mayo clinic, show that 83 malignant tumors of the kidney were operated on up to July 1, 1912 three cardinal symptoms of renal tumor - hamaturia, pain, and tumor - were found present in Two of the symptoms were but 32 of the 83 cases present in 37 cases and but one symptom in 14 cases It is evident, therefore, that the diagnosis must more often be made with but one or two of the cardinal symptoms. Hæmaturia was present in 64 per cent, was the primary symptom in 36 per cent, and the only symptom in 12 per cent, a posttive history of repeated hamaturia, which alone is valuable, was obtained in only 50 per cent of cases Microscopic blood in the urine is not of much practical diagnostic value

In 64 patients, or 78 per cent, a tumor mass could be felt on clinical examination, its existence was known to 28 patients, or 31 per cent of the total, it was the first evidence of disease in 12 patients, or 15 per cent, 37 patients were unaware of its existence, although the majority of them had had more or less medical care previously, and it was given as the only symptom by 5 patients, or 6 per cent Abdominal pain of varying degree was complained of by 68, or 82 per cent of the patients. It was given as a primary symptom by 27, or 12 per cent, and as the only symptom by 14, or 17 per cent While dilatation of blood vessels in the scrotum, bladder, and rectum occasionally occurs with various abdominal tumors, and may then be explained by mechanical pressure, the peculiar frequency with which they are found with renal tumors, together with the venous dilatation in the upper extremities and the common cardiac insufficiency, must be explained by causes other than mechanical When this condition is suspected the radiograph may show the metastasis providing the bronchial glands are large and favorably situated

Renal tumor evidently occurs more often in the male than in the female. It was found in 52, of 62 per cent of the males, and in 32 female patients Evidence obtained through chemical estimate

of decrease in renal function consequent to tumor must be considered with caution. In the 22 cases with operation in which pyelography was employed, recognizable deformity was demonstrated in 17. The results of nephrectomy were. Operative

mortality, 11 per cent, three-year cure, 27 per cent, five year cure, 10 per cent. The shorter the dura ton of symptoms prior to operation, the better the prognosis

Tisserand Renal Decapsulation in Acute Toxic Nephritis (Decapsulation renale dans les néphrites toxiques aigues) Lyon chir, 1913 ix, 31 By Journal de Chirurgie

The author reports two cases of nephritis with anuria, following mercurial poisoning. In both

cases, decapsulation was followed by re-establishment of urinary secretion, but the patients died from the effect of poison

me care to possion of 25 years had suallowed 25 meters or optimale The operation was on the fourth day. The pattent has been anure since the fourth day. The pattent has been anure since the moment of the ingestion and showed very marked myosis. Decapsulation of the right kidney was performed. The Judney was very large and very congested. On the first day thereafter, 15 cc of the trine was passed, and the second, 45 cc, 170 on the third and fourth, and 160 cc or the third was present to the render to the render the performance of the rend secretion, the general condition became progressively worse and death occurred nine days after the ingestion of the possion and five days after

decapsulation

Case 2 Woman of 24 years Poisoning by sublimate, operation on the tenth day, after five days of anuns Decapsulation of a very large and congested right kidney Injection of serum containing glucose Seventy five co of unne were passed on the day following operation and there were several spontaneous vondings on the following days Progressive scalaness, death sit days after decapsulation At autopy, the right kidney (decapsulated) appeared normal while the left kidney was gray and congested

In spite of this double failure the author believes that decapsulation should be done in toxic nephritis as soon as possible after anuria appears

Cg Levormant

Taddel Typhio-Ureterostomy after Resection
of the Cæcum, and Appendicostomy in the

of the Carcum, and Appendicostomy in the Treatment of Vesicular Lastrophy (Surla typhlo-uritfrostome après reclusion du cécum et appendicostome dans le transement de l'extrophie Vesicule? Ret de thir 1913, Xivi, 37 By Journal de Chrurgre II we admit that the diversion of unne, in the treatment

as we aumitting the unversion of urine, in the treatment of vescular exteropts, as cetaally the method of choose, it is evident that the deviation into the has given the best immediate results. By looking over the results of others the author has found that there is a great frequency of ascending infection from the implantation of the ureters in an infected civity.

In order to better the technique, we have attempted the resection of the urinary reservoir and have isolated it to prevent the infection of its cavity. The resections of Borelius and Dowden are in-

complete with reference to the above icentungue. Complete rescettons were done by Soubotine, by Hertz Boyer and Howcłacque and by Cunco, utilizing the rescreted rectum, or part of the intestine with the anal sphinceter, as the unnary and faceal with the anal sphinceter, as the unnary and faceal the state of the criticises the above technique error the real balls entirely and the complete control of the complete control of the strine. He proposed procedure based upon the complete resection of the

curcum with appendicostomy, followed by the im

plantation of the ureters in the resected excum The claims for the origin of this technique goes to Verhoogen, who used it unsuccessfully in two cases

in roos

The researches of Tadder are based upon work with dogs and cadivers. The operation is divided into two steps, done at different times At the first operation the exeum is resected and an appendicos tomy done, an ileo colic anastomosis is made with the ascending colon. After some time with the animal in this condition, the excal cavity is rendered aseptic through the appendices opening. At a second operation the bladder is excised. The preters are removed, leaving a small collar of the vesicular wall at their ends. The operation is done retroperstoneally for the greater part of the time a part of the lower and inner surface of the creum is exposed retroperatoneally. On this retroperatoneal surface of the crecum the ureters are grafted They are pulled into the creum by a sound which is passed into the cæcum through the appendiceal opening. The two sounds are left in the preters until there is firm union of the grafts The capacity of the new reservoir would be sufficient according to Tadder and if necessary could at any time be relieved by a Pezzer sound

We cannot see in what respect this result is supe rior to those of Cunco and Marion and Hertz Bover in which cases they were able to get good continence during the day and partial continence during the

night

.

The work of Taddes on dogs has given him a good opportunity to study the changes if any in the c.ecal mucos a from the contact with the uring found that there was no metaplasia of the excal epithelium to that of the vesicular type

According to Tadder this operation would be indicated in pritients who have sufficient resistance and in whom the kidness are intact in exstrophy of the bladder and in certain cases of irreparable vesico FORESCHO

vaginal injuries

BLADDER, URETHRA, AND PENIS

Chetwood. Contracture of the Neck of the Bladder. J 4m 3f lis 1913 lx 257 By Surg Gynet & Obst

The author maintains that while there may be other causes of bladder atony, the chief one is in the nature of circular sphineteric and prostatic stenosis, causing incomplete and complete retention This appears in the young as well as in of urine It may occur independent of prostation the old enlargement or be combined with it, is sometimes a fibroid stenosis being mostly inflammators or may be confined entirely to the internal sphincter or encroach on the prostatic orifice and include a large portion of this section of the urethra, being amenable to surgical relief by complete excision preferably by the galvano cautery or by complete extirpation with the knife

The author reports one case of this kind which

came to him for autopsy in which the urethral orifice was the size of a number 18 French eatherer and also was exceedingly rigid the urethral orifice having lost all its elasticity. The microscopic examination of this specimen showed chronic and acute perifollicular inflammation

The treatment of this class of case which the author has used for the past twelve years is the galvano cautery knife used through a perineal V D LESPINASSE

keyes: A Case of Carcinoma of the Bladder Controlled by the High Frequency Current. Surg , Gynre & Obst , 1913 avi. 79

By Surg , Gynec & Obst keyes reports a case of definitely proven carcinoma of the bladder which by the use of the D Arsonval current and later the Oudin current, not only was kept under control but remained apparently cured for 18 months He lays down the following clinical points relative to the su-ceptibility of bladder tumors to the high frequency current

1 I tumor with an indurated base is incurable by burning (Indutation of the base may be deter-

mined by rectal examination)

2 The size and multiplicity of tumors are not decisive elements in deciding against local treatment with high frequency yet the larger and more numerous the growths the greater likelihood of their having an indurated base which forbids the hope of cure by burning

I Those tumors covered with extensive sloughme surface are not amenable to cure by burning

4. Intractable cystitis is the most striking contraindication to cauterization | | S Envistment Werthern Suture of the Bladder after I (thotomy in Children Leber Frihmmen mit der Blasennaht

beim hohen Steinschnitt an Kindern: Munchen med Behasekr 1913 lx 134

By Lentralbl f d ges. Gynak u Geburtsh s d Grenzgeb In children with vestcal calculi the author recommends complete closure of the bladder by suture as the quickest and most convenient method of healing after the high operation. Open treatment is warranted only if the bladder is severely inflamed and gangranous. The after treatment and healing is on an average quicker in the sutured cases, even if a small urinary tistula should appear, as this always healed spontaneously where the bladder has been sutured During the operation and after, to test its integrity, the blidder is always irrigated with boric acid and hydrogen peroxide solutions The suture of the bladder is double and continuous, and drainage is maintained for from 8 to 14 days with a thick self retaining catheter through a small incision made upon a curved dressing forceps, which is pressed against the perincum from within Such direct free drainage guarantees constant emptying of the bladder and easy and thorough cleansing from shreds of tissue or coagulated blood. The small urethrotomy wound always heals spontane-

VITASCHE

ously even after a longer drainage

Geissler: The Value of Gonos in the Treatment of Urethral Gonorthea (Ueberden Wert des Gonosans bei der Behandlung des Harnrohrentrippers) Recht med Am., 1913, \$233-14, 35

Reichs med Ant., 1913, xxxviii, 35 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author used gonosan with the usual Janet douches and protargol in cases of gonorrheeal and non gonorrhocal urethritis Purulent discharges soon became mucous, in one case after 7 days' treatment, but on an average after three weeks. The gonococci disappear in 4 weeks usually, whereas without the use of gonosan it took 12 weeks in one case, with 8 weeks as the average A case of gonorrhora treated with gonosan averages 6 weeks, while those treated without it average 101/2 necks Complications occurred only when gonosan was not used, a cases of epididy mitis and one of cystitis occurred in the series Burning on urination disappears after a few days with the use of gonosan It should be given early In old cases one should not expect much VON MILTNER

Bruck. The Treatment of Gonorrhea and Its Complications (Die Behandlung der Gonorrhoe und ihrer Komplikationen) Therap Monaisch 1913, XXVII. 1

By Zentralbl f d ges, Gynak u Geburtsh s d Grenzgeb

The diagnosis of gonorrhola cannot be made exclusively chinically, i e from subjective symptoms, the presence of secretion opacity of urine and so on but has to be made etiologically too, by the proof of the presence of gonococci only thus can the course and the influence of the treatment be controlled and only in this way can a genuine gonor-rhoa be differentiated from a postgonorrhoic urethritis The author establishes as a basis for the modern treatment of gonorrhora the following (1) Destruction and definite removal of the gono cocci, if possible without increase, but certainly without removal of the inflammation and secretion of the mucosa (bactericidal therapy), (2) after definite removal of the gonococci, combating the remaining chincal symptoms (astringent therapy) The bactericidal therapy is applied best by silver albumin preparations, from which, according to a chart by Liebert, even in very weak solution destruction of the accessible gonococci may be accomplished in a short time These silver albumin preparations not only possess this strong gonococcicidal power but also a marked remote influence since they contain the silver "masked," thus not combining with the fluid of the tissues Silver albumin preparations possess no astringent properties to counteract the inflammatory activity in the mucosa which must be thought of as naturally prophylactic principles for the modern treatment of gonorrhoea are therefore (a) No antiseptic treatment, destruction of the gonococci on the surface and if possible deeper, without aggravating tissue reaction protargol argonin, etc (b) A mild anti septic astringent treatment, destruction of the remaining gonococci and moderate reduction of the

inflammation by salver nitrate, ichthargan, allbürgin, or argentainin (c) Concluding with a purely astringent therapy zinc sulphate, bismuth, or alum. A new antigonococcicide is hegonon, recommended by Klingmiller and said to be superior to protarged Another is argent proteine (Heyden), the good results of which Oppenheim is praising the control of the considered as an error, internal treatment must be considered as an error,

In conclusion, the chemotherapy lately employed by the author and Glück is mentioned, the theory of which is that silver solutions combine with strongly diffusing substances by which the silver is carried to the submicosa. When no result is obtained the fault is a biologic one, an immunity to silver on the part of that group of gonococci concerned baving been acquired during the treatment. A second report is promised after further experiments.

PKEDICH

Lothrop Treatment of Hypospadias Boston M &S J., 1913, clavin, 48 By Surg, Gynec & Obst

Cases presenting a congenital deficiency in the floor of the urethra are divided into three groups (1) The glandular type which is most common and generally left untreated because there is no interference with the functions (2) The penile type, which presents functional disturbances varying according to the location of the meatus nearer the meatus to the penoscrotal angle, the greater the disturbance of functions and the more probable penile deformity (3) The scrotal type. which is rare and in which there is great deformity and most serious functional disturbance deformity makes costus impossible and the location of the meatus keeps the adjacent parts irritated from frequent wettings with urine

Treatment The glandular type is so unimportant and the scrotal type is so rare and its attempted rehef so unsatisfactory that only the penile type will be considered here The author uses the flap operation described by Thiersch in 1860 for the treatment of epispadias and adapted later by Anger for cases of hypospadias with slight modifications required by the exigencies of each case. The flaps should be handled with delicate hooks and forceps so as to avoid unnecessary injury If it is necessary to straighten the penis this operation should be done six months or so before attempting to correct the urethral deficiency. The straightening process is accomplished by making transverse incisions through the tissue below, between and extending into the corpora cavernosa. The penis is then extended so as to open the wounds and the opposite ends of the incisions are approximated and sutured longitudinally The formation of the new urethra is accomplished by making two flaps with the penis in an extended position. The meatus is enlarged as a prelimary operation if necessary The base of the first or smaller flap is parallel and close to the line of the deficient urethra. The flan is of sufficient extent to fold back over a rubber catheter inserted into the bladder and left for 7 to 14 days The second or larger flap has its free border parallel and alongsule the line of the deficient urethra but on the opposite side This is made large enough to reach across the new urethra and cover the area denuded by the first flan second flap should be made as thick as the tissues will allow and enough broader to lap over the an terior and posterior borders of the first flap. Fre quently the catheter will require to be changed, according to circumstances. Sometimes a minor operation will be required later to close the small fistulæ which sometimes persist in the vicinity of the original meatus Mattress sutures of fine silkworm gut, wire, or horsehair are placed so as to hold the short flap in place over the catheter and draw the larger flap snugly into place over all Usual dressings are applied A moderate amount of ordema must be expected careful attention must be paid to the wound during convalescence, and the catheter must be kept in perfect order and should be retained until the wound is healed II D Oce

Scholtz. Modern Diagnosis and Treatment of Chancrolds Ural & Culan Ret., 1913, xvn 27 By Surg Gynec & Obst

The author gives in detail the differential diagnosis and the modern treatment of chancroids. He mentions two new methods of treatment not mentioned in the text books, which he describes as first the X-ray treatment, and second the employment of radiant heat by means of the leurodescent lamp

Scholtz is inclined to believe that modern clinicians are prone to slight this important malady, consider ing it so trite as not to warrant much attention, but he strongly emphasizes the fact that "chancroid is by far not a closed chapter in medicine, either theoretically or chinically, and deserves a greater attention at the hands of the profession than it has been granted heretofore ' He brings out the differ ential diagnosis between chancroid and herpes pro genitalis infected balanoposthitis chancte mixed infection, syphilitic flat condylomata cuta neous gummata, epitheliomata and tubercular ulcer The exact diagnosis in many cases can be made only after bacteriological search for spirochæta pallida and streptobacillus of Ducrey Unna

Among chemical cauterizing agents for chain roods, furning intra card and pure carbolic acid are to be recommended, for active cauterization, the Paquelin or galvanic cauteries is to be preferred. The use of silver nitrate and copper sulphatic most emphitically condemns. Among the anti-septic powders, todoform, aristol and todol are best employed.

employed In all, it cases were treated by X ray All cases were of the phagedenic variety, which resisted all kinds of cauterization and antiseptic applications for more than two or three months Scholtz does not recommend that so powerful a therapeutic agent

be used in the mild average case, he tracries since for the rebellious and sergipious variety. The author reports rapid improvement in all his case cert on a This case not only did not improve, but actually grew worse. Seven cases were complicated with phagedranic bulues, one of the cases being histerial. In 6 cases two ray exposures were needs says at one week's insterial. In a cases one exposure was sufficient to bring about recovery. The X ray stropures were as follows strength of the current, exposures were as follows strength of the current, duration of treatment, to minutes, exposure amounted to so called half-ery them dose.

The second method advocated by Schott, namely The second method advocated by Schott, namely The second method advocated by Schott, namely the second second name and the second second the second name and the second name of the second to second name and second name of the second upon which as a last resort he tried "radiant heat" The result was that "a healthy reaction asserted itself after the very first exposure, and after tenerpowers the uter had a heithy granulating surface rapidly undergoing epithelization." It is advised that with this so candle power leuvodescent lamp, druly exposures be given, of ten to stenly minutes at a distance of as to twelve mich.

GENITAL ORGANS

Legueu Diffuse Perivesicular Abscess of Prostatic Origin (Le phiegmon diffus pénvéssal d'origine prostatique) J d'Urol, 1913, in, t By Journal de Chicurgie

The observations which Legues published have bruight to light many interesting frets shoul the pathological anatomy connected with the inflitz tion of urine. The inflitzation of urine from the superior quadrant and the diffuse periocecular abscess arising from the proxite hall, up to the present time never been observed with such that the present time never been observed with such that the descriptions are more are substitutions.

The patient upon whom these observations are based entered the hospital with a diffuse perineal absees. Because of long standing infiltration of urine the tumor miss extending to the anus and securities of the control of the tissues above the pubis and grouns altering greatly the normal landmits.

Upon making large multiple incisions the local condition was greatly improved, but the patient's general state remained poor and be gradually grew worse. He died on the eleventh day after entering the hospital

Autopsy showed the following interesting conditions

1 \ urethral narrowing with displacement due
to the infiltration

2 A chronic suppurating prostate, anterior to the perincil infiltration which completely destroyed the prostate The mass had perforated into the membranous urethra, the remaining part was

unimpaired

3 A diffuse perivesicular abscess. The whole bladder was involved in a zone of serous or sero purulent infiltration, which involved the sub-peritoneal fissues. Behind, above the seminal peritoneal tissues vesicles, there was a large endematous mass, which extended the height of the bladder and made a large tumor mass which protruded into the cul de sac To the right and left of the bladder the perivesic ular tissues were similarly infiltrated and cede matous. The infiltrating substance was more puru lent in the dependent parts and more serous near the surface The infiltration did not extend into the anterior perivesicular tissues. The anterior vesicular ligaments formed a barrier against the prostatic infection

We are thus dealing with a serous or seropurulent pericystic, that is to say, a diffuse peri vesicular abscess, and an infiltration of urine from the superior quadrant

The prostatic abscess was the starting point for the double infiltration superior and inferior Somewhat similar cases have been reported (Motz and Bartring, Thivenot and Michel) This observation proves the possibility of infiltration of urine from the superior quadrant

The author draws the following conclusions First, chnically There is the necessity of thoroughly familiarizing ourselves with the state of the prostate and surrounding tissues in a patient suffering from infiltration of urine, since the general con dition of the patient remains poor during the gradual progress of the infiltration to the surface

Second therapeutically Considering that similar infections are not beyond surgical assistance, these abscesses can be opened by the perineal route for the purpose of draining the prostate, the starting point of the infection Another drain is inserted by the suprapubic route, exposing the prevesicular space through a point in the midline This drains chiefly the lateral parts of the bladder I TANTON

Lowsley. The Human Prostate Gland at Birth. with a Brief Reference to Its Fortal Development. J Am M Ass, 1913 lx, 110 By Surg Gynec & Obst.

This work shows conclusively that the prostate is developed from five centers or lobes - the anterior or ventral, posterior, middle and two lateral The posterior lobe forms the apex of the prostate and is quite distinct from the rest of the gland This fact is of considerable surgical importance to those performing perineal prostatectomy The number of tubules opening into each varies from fifty to seventy four with an average of about sixty three The author also calls attention to two groups of tubules which may be called accessory prostates, one of these being in the floor of the urethra just outside the bladder and the other being in the trigone of the bladder just inside the urethral orifice V D LESPINASSE

Young: A New Procedure (Punch Operation) for Small Prostatic Bars and Contracture of the Prostatic Orifice. J Am M Ass 1913, lx, 253
By Surg, Gynec & Obst

The punch operation, done by means of a special instrument devised by Young, is in this article first placed before the profession in an extended way The punch is a modified urethroscope with a slot cut out of its under side After the obstruction is engaged in the slot a cutting mandarin is inserted which cuts off all the tissue inside the slot cuts are usually made-one median and one lateral on each side. It is an operation applicable to prostatic hars and small obstructions in the posterior methra and trigone of the bladder. One would imagine that this operation would be followed by severe hæmorrhage, but loung overcomes this hæmorrhage by means of a two way catheter put in place immediately after the operation, and irrigation through the catheter for 24 or 48 hours

The operation is applicable in the following types of cases bar of contracture of the vesical orifice. prostatic bar of contracture with diverticula, prostatic bar of contracture with vesical calculus. prostatectomy cases with incomplete results, median bar with trigonal elevation and obstruction

This operation has given excellent results in the hands of its originator and a few others who have performed it. It is an operation which must be restricted to certain types of cases. It seems to be the safest and surest procedure which has yet been introduced V D LESPINASSE

Plondke Surgery of the Prostate, with Special Reference to Preparatory Treatment and Anæsthesia. St Paul M J 1913, xv, 1

By Surg , Gynec & Obst

The author estimates that 33 per cent of all men over 50 years of age suffer from enlarged prostate. that 10 per cent of these require treatment and that catheter life results in 100 per cent mortality within an average period of four years. Afteriosclerosis and resultant diseased condition of the sarious organs usually go hand in hand with hyper-trophy of the prostate Before any operative procedure is attempted, the existing diseased conditions are carefully investigated and appropriate treatment employed Special attention is given to the infected bladder, which is cleansed thoroughly several times daily with normal salt or boric acid This is followed once a day with a half ounce of 5 per cent solution of argyrol allowing it to remain in the bladder, thus sterilizing the residual urine When the infection is severe and the urethra very sensitive, a large size trocar is plunged into the previously distended bladder above the pubis. the bladder is examined and treated through this opening Aitrous oxide, if administered by an expert should be the anæsthesia of choice, otherwise ether should be used Chloroform is too irritating and depressing. Where a general anxisthetic is contraindicated, spinal analgesia with stoyain is recommended The choice of operation is left to individual preference, but the surgeon must always remember that the patient should be in the best possible condition, he should receive the smallest possible amount of anæsthetic, and the operation should be finished in the shortest possible time.

Freyer. One Thousand Cases of Prostatectomy. Am J Dermatel, 1912, xvi, 627 By Surg. Gynec & Obst

The author reviews his series of 1000 prosta tectomies Three of his four cases reported eleven years ago are still alive and free from unnary troubles Average age of patients operated upon was 60, the oldest being oo and the youngest ag-The weight of the prostates removed varied from one-half ounce to seventeen ounces. Among the anones complications noted where cystitis, calculus, pyrkitis, kidney diserses, heart disease, thoracitories of hermal hymorrhoid and participation of common of hermal hymorrhoid and participation of organ other than the prostate. There were 55 deaths, or a mortality of 515 per cent. Causes of death, as given, were urrama, heart disease, shock, exhaustion, sepsis, mann, malgrunt disease of the liver boorchitis, pneumona, heart stoke, pulmonary embolism, exclusible and processing the conyrest of the processing of the processing of the proyer embolism, exclusible and processing the proyer embolism, exclusible and processing the proyer embolism, exclusible and processing the proyer more processing the processing the programment of the processing the processing the properties of the processing the processing the properties of the processing the processing the proterior of the processing the processing the processing the proterior of the processing the processing the processing the proterior of the processing the processing the processing the proterior of the processing the processing the processing the proterior of the processing the processi

[Monograph]—Kleinschmidt Urinary Secretions, Their Physiography and Pathogenesis (Die Hamsteine, shre Physiographic und Pathogenese) Berlin I Springer Bis Surg. Gynec & Obst.

In this interesting monograph the author takes up the pathogenesis and physiography of the umany concretions of the properties of the properties of the control of the control of the characteristic of the theory of the take the nevestigation of the chemical compositions had not been thorough enough While in a general way the chemical nature of the constituents of umany calcula has been known, a systematic quantitative analysis was lacking. With the side of supplying this known degree the author examined 56 calcul laying particular stress on the examination of the various layers of composite concretions and thus gaining authentic information about the nuture of the nuclei of the various concretions. The essayst presents the

whole problem in the form of the following questions
What rôle does the organism play in the formation

of concretions?

What are the primary causes of the formation of the various concretions and what are the last exciting conditions for the appearance of the sediments and the calculi?

Is it possible to determine the genesis of the calculi from their structure, and is it possible to supplant by a genetic one the mere descriptive division of the

various concretions?

In order to answer these questions the author made a sense of cuts through the stones at has dis postl, which cuts were ground down to extreme thin ness, in this way permitting an insight into their finest structure and a chemical analysis of the constituents of their different layers the products of a return of the control of the pathology of urmary concretions

So far, Ebstem's theory has been generally accept ed, he found that every urnary concretion contained an organic basis or skeleton, and he considered the formation and presence of this organic skeleton an indispensable premise for the formation of any urnary concretion, a condition sine qua non kleinschmidt shows now that the organic brus of the urinary concretions is not a specific coagulating substance sucreted by the proposetic system, but that in most of these cases the albumin normally present in the urine is in very faint traces, and that it becomes only traceable and visible in the course of precipitation of the crystalloids If, occasionally, the normally low percentage of the unnary albumin happens to be increased by inflammatory processes these pathologic albuminates will participate in the formation of the organic skeleton, being dragged down by the precipitating crystalloids in the same way as is the normally present albumin, but if such pathologic albuminates should precipitate like fibrin. then they can no longer be used for the formation of calcult but will lead to incrustations like any other necrobiosing and coagulated tissue arrested in the erinary system. This becomes apparent if one considers that so far none of the morphologic or tinctorial examinations has shown that a fibringenous substance is the organic stratum of urinary concretions

Furthermore, while in the stones thit Schade produced in the laboratory the congulated fibra determand the form of the concretions and, after the artificial dissolution of the cry stalloads, the fibranous skeleton became distinctly visible again, in the geanue turnary concretions the structure is determined by the specific nature of the crystalloids, depending on the has that are governing this particular crystal-

Therefore we have to conclude that the so called organic skeleton is not a primary formation nor an essential premise for the building up of unnary conceitions, but samply a concomitant incidental creations are supply as concentration in the conception of a specific organic basis for the formation of unnary concretions became untenable, there remained as an essential factor for the formation of these contribution of the contribution of the contribution of the contributions of the saturation with stope that the contribution of the contributions of th

concretions that may form the nucleus for an appositional growth of large concretions and the conditions that will lead to this secondary stone formation, which event may occasionally give rise to the building up of calculi whose various layers contain different states builder.

different "stone builders The nuclei are most frequently composed of unc acid, due to unc acid infarctions Ebstein's theory that these infarctions are formed by the necrosing of the tubular epitheha under the toxic influence of the unc acid, and that they then become impregnated with the latter, is repudiated by the essavist in conformity with the results of Ascholl's and of his own investigations Both authors were able to demonstrate that the flooding of the blood with unc acid in animal experiments suffices to produce an infarction analogous to the infarct observed in the human being. We are therefore compelled to ascribe the formation of the infarct to the excessive and sudden chmination of uric acid. As a matter of fact, the elimination of the uric acid is much greater in infants than in adults

If the crystallization of the unc and occurs in the bladder, and in operiously formed nucleus be present, then, provided the bladder function is sufficient, these crystals will be voised without difficulty as unc and grave! In case the emptying the present of the control of the control of the present of t

It is, of course, obvious that after a nucleus is once established, chemically different layers may be precipitated on it if an oversaturation of the urine is with other stone builders occurs, for the formation of phosphates an allaline reaction of the urine is proposed to the control of the control of the control either by bacterial influence or by the effasion of blood into the urine both of which conditions may result from traumatism influence on the bladder wall As a final result of his investigations Kleinschmidt arrives at the following division of the urinary concretions

Non inflammatory stones (a) primary formation of a concretion — formation of a nucleus, (b) secondary formation of a concretion — formation of layers

These primary calcula are formed through the increased timination or abnormal prepripation of a stone boulding substance, which condition may be of a transitiony character only. To the secondary stones of this group belong all those concretions that are formed in a normal unnearound a nucleur. The promise the promise stones belong the unit acid stones the xanthin the cystin, the calcium oxalate, and the calcium

2 Inflammatory stones (a) primary stones, (b) secondary formation of stones — formation of layers — combination stones

For their formation the same conditions as meotioned for Group i hold good except that an additional factor as to their growth is present, viz. unflammation of the urnary system in one or all of its parts. As the stone building substances are to be considered phosphatic ammonia magnesia, ammonium murate, and calcium carbonate, unca read is found to be the substance which most time.

ammonium murate, and calcium carbonate, uncacd is found to be the substance which most frequently forms the nuclei, more rarely nuclei consisting of zanthin, cystin, ovalities, or phosphates are found.

All inflammatory stones have their origin in

An inflammatory stones have their origin in batternal infection and in the subsequent ammonia-cal termination of the turne. The author concludes of stone formation as propounded by the endogy of stone formation as propounded by the fact that the stones examined by surgeons will of necessity be inflammatory in nature since they give rise in the majority of cases to arther pronounced clinical symptoms, while those examined by the pathologists will in the vast majority of cases be unre acid stones, according to the greater general frequency of their occurrence.

SURGERY OF THE EYE AND EAR

EYE

Alzner: Operation for Ptosis with Free Transplantation of Fascia (Zur Ptosisoperation mit freer Fascientransplantation) Zentralli f Chir., 1913, xl, 153 By Zentralli f d ges Chir u i Grenzgeb

The author employed free transplantation of fascia for the removal of a ptosis of the left upper eyelid The flap was taken from the thigh Union with the upper tarsal border and the frontal muscle was obtained by making an incision and undermining the skin The result at first was not very good, so that correction was considered. One half year after the operation it was found that the left palpebral fissure was larger than the right, and that the upper lid could not be closed completely These changes were traced to shrinkage of the aponeurotic flap, which when the eye was closed could be dis tinctly felt in the form of a tense band. The case shows that transplanted fascia has a tendency to shrink, and that this tendency must be reckoned with in transplantation

Metz Vernai Conjunctivitis. Classiand II J 1913 xm 29 By Surg , Gynec & Obst

Spring catarrh is a chronic affection of the conjunctiva, most commonly bilateral. No portion of the conjunctiva is exempt from involvement in the process, though it is rare to find in one case the participation of the whole membrane. More usual by the affection of the tarsal or the bulbar conjunctiva is more prominent.

Hypertrophy of the limbar conjunctiva occurs penerally on one side of the cornea and is semi transparent, of punksh or brownsh color, and of gelationus appearance. The surface may be smooth or uneven. There are small whittsh or yellowsh white spots in this perconneal hypertrophy appearing, with the loupe, like white colonies of microbes on a gelatin medium. Horst mid Transis as admirate risks of open control of the percentage of the percent

"The change in the conjunctiva of the upper lid is characterized by the formation of hard flat papilar which are greatly projecting pale, and sharply outlined. They are tesselfitted or payment the in appearance and over the whole is a milky opacity. The papille may be very small and appear with the loupe only as ketching the particular of the area of the particular of the particular of the particular of the area of the particular of the particular of the particular of the many though the basement membrane is always intact. The secretion is usually scanty, murcus or muropuralent, and characterized by the large number of essiosphile cells in proportion to the total number of wandering cells. The downgrouths are constantly being absorbed, and the civities thus formed are filled with essionsphiles which are erupted at the surface. If the lid is held everted a scanty, thin, limp exudate will be formed on the conjunction.

The duration of the disease is from 3 to 20 years. Theories as to cause include atmospheric heat, ultraviolet rays, and bacteria. Protection against the first two plays an important part in the treatment.

EARLE B FOREE.

Cohen The Clinical Course of Conjunctival Affections Associated with So-Called Trachoma Bodies Arch Ophils 1013 zh., 29 By Surg., Gynec & Obst

Cohen submits further data to prove that the socalled trachom boders are the tological factor of a conjunctivitis independent of trachoma as hypothecated in an artick two years ago by Noguch and himself. Thenty one of their first series of cases were followed. These are stated to have infected and caused 41 other cases, 10 trachomata caused 19 others 6 blenorthera encontorium non gonorrhoica caused 2 others, 6 blenorrhora gonorrhoica in 3 oung guits caused 20 others

The transmitted disease simulated trachoma for a time only the course was shorter, more acute, and without subsequent scar formation and pannus. The so called trachoma bodies were present from 2 to 9 months. Folkcular and papillary stages were present. Restoration to normal usually required 3 to 4 months, in one case o months.

The 6 blenorthean neonatorum non gonerthous cases came on 4 days to 2 weeks after birth, resembled mild cases of gonorthea, became a finely papillary conjunctivitis after one week, regressed along with the gradual disappearance of the bodies in about 2 months and the conjunctivæ were normal in 3 to 4 months

In all the 6 original cases of blenortheas gonometron an joung girls and in the 20 cases arising from them, gonococci were found along with the so-called trachona bodies, "but the irregularity of their discovery and the inconstancy of their occurrence were noteworth;" In the original 6 cases the conjunctiva became normal in a 10 4 months.

 tion could only occur through the maternal gentalia (2) it does not resemble trachoma clinically, and (3) there is spontaneous cure without sequelz. In blenorthera genorthoica in girls the bodies have only become engrafited on the gonortheral disease

Final proof cannot be brought until the organism can be cultivated I RANCIS LANE

Credé-Hörder. Non-gonorrhæal Ophthalmia Neonatorum (Ueber nichtgonorrhoische Ophthal mobleanorrhoen der Neugeborenen und Sauglinge) Deutsche med Uchnicht, 1913, XXXIX 74

By Zentralbl i d ges Gynak u Geburtsh s d Grenzgeb Many cases of ophthalmia neonatorum are not of gonorrhoral origin Let even with careful treatment these may run a slow course, though there are in most cases no serious results The clinical aspect is about the same as in Neisserian infection, agglutination of the evelids reddening of the palpebral fissure serous or purulent secretion and reddening of the conjunctiva The cornea is never affected the secretion is but slight and is more serous in nature. The microscopic examination shows only leucocytes and a few epithelial cell bacteria of various kinds being found but only few in number mostly diplococci, gram positive in one case, typical pneumococci running a very obstinate course In three mild cases of short duration thick plump rods of 2 to 3 were found intracellular or in the field between the leucocytes The author calls these bacilli coli commissuris and gives de tailed report of the bacteriology The clinical course depends on the producing agents Blennor rboxa caused by gram positive diplococci is mostly late, appearing usually on the sixth to the sixteenth day of life The secretion is almost always serous and can be stopped within 8 to 10 days by cleaning with a solution of boric acid. Relanses are frequent Far more severe are the pneumococcal infections which set in on the eighth day with red ness and swelling becoming serous on the second day, purulent on the third day and slightly san guinous on the fourth Œdema was marked Treatment consisted in irrigating with a solution of boracic acid and on the first and fifth day in the instal'ation of 13 per cent argentum aceticum The eye which was first affected was cured after 16 days, the second not clearing up for 10 days more The three cases which were caused by the bacillus coll appeared on the fifth seventh and eleventh days, respectively after birth and lasted from four to nine days. The infection was confined to one eye, the secretion being serous or slightly purulent These cases were irrigated with boric acid solution Treatment must be persisted in, since these infections while never dangerous to the sight if neg lected may develop into chronic conjunctivitis ZWELFEL.

Jess On the Chemistry of Senile Cataract. Arch Ophth, 1913, Ma 45 By Surg., Gynec. & Obst The author discusses a new albumin reaction first observed by Hefiter with egg albumin, and which

could not be obtained with serum albumin, fibrin, egg globulin, keratin or pepton. This is a red coloration resulting from the use of sodium nitro-

prusside and ammonia Arnold later found this test to be positive in a series of animal as well as plant albumins. The proted substance of most of the organs (liver, thymus, muscle) reacted positively, whereas connective tissue and the albumin contained in the exerctions and secretions did not give the reactions. The reaction was less strongly marked in the albumin of plants and was most strongly marked in the lens of the eye Arnold, as well as Hoffer, consider the strong proup on the albumin molecule for of all the animo acids in albumin cysten alone becomes red with sodium introprusside and ammonia.

Reis was able to prove that in the normal lens there was no difference in the behavior of the petupheral and central layers with the cystein reaction. In senile cataract the reaction disappears entirely or in part, whereas a traumatic cataract reacts like a normal lens.

Red coloration was entirely wanting in a hyper mature cataract while in a miture cataract it was absent or only faintly present in the nucleus, and was a trifle more marked in the cortex. In immature cataract the cortex reacts plainly, and in some cases even the nucleus reacts.

Reis separated the cortex from the nucleus and examined each for cystein by rubbing up some of the lens material on tissue paper with a spatula and pouring over this a few drops of a 4 per cent sodium introprusside solution and then a few drops of ammonia

Jess gues his finding in a few cases. He also solitation in roows flenes and in 56 normal human lenses the B Kristallin and a Kristallin, and got an a Kristallin free from albumm which still gave a strong positive reaction. He says the most interesting point of the entire extramation, and for the first point of the entire extramation, and for the complete absence and the most important, is the complete absence and the most point of the point of the complete absence and the constitutes about one half of the entire albumm once hooly which is insoluble in water and which constitutes about one half of the entire albumm content of the normal lens

In agreement with Michel and Wagner he found the amount of soluble albumin in senile cataract to be diminished. As it is just these forms of albumin, namely, a Kristallin and especially B Kristallin, makely a Kristallin and especially B Kristallin, which do not give this reaction the negative result of the nitroprussed ammonia reaction in senile cataract is explained very simply by the more or east only the loss of the soluble albuminous material less complete loss of the soluble albuminous material

Rogers Observations Concerning Foreign Bodies

Within the Eye or Orbit Ophth, 1913, 12, 153
By Surg, Gynec & Obst
The author's observations are board.

The author's observations are based upon 116 cases which were subjected to operations with various types of magnet, and show that while the portable magnet with its point within the globe gives a lower percentage of failures to remove a foreign body than the gint! type, its functional results are inferior, and it yalds a higher percentage of eyes ultimately lost from degenerature rectum. There were 12 cases in which the gint magnet abone was used, and in none of the was vasual authors, an which closure less than before, 7 cases in addition, in which closure less than before, 7 cases in addition, in which closure being the authory magnet, did not after these trusts except when inflammatory reaction had develored before the operation.

A grant magnet of less than to amperes capacity is a nitfall rather than a dependence but an appearance of this power is not to be used carriessly and unless the injunctions of II half are followed into a grant to the gradual increase of force and direction of the line of fraction disapposation will such result lorty to fifty municis are often required to bring a small foreign body properly into the anterior clumber. It is not well adapted to the removal of large bodies or small encapsulated substances

bounds of small encolonisation of the control of th

It was somewhat surprising to note in the discussion connected with the presentation of this paper some tendency to disregard the necessity of \$\(\lambda\) rylocalization before undertaking removal

Stover. Röntgenography of Foreign Bodies in the Lyeball Ophik 1914 is 1-8
lly Surg Cone: & Obst

The article deals in a general way with the salue and methods of using X-rays in the dispensive of foreign bodies in the eye. Most foreign substances which are likely to be lotted in the eye are consistent and article and article article and article article article article article are substant skill and expensive a the hard article article are substant skill and article article are substant skill article are substantially and article are substantially article are substantially are substantially are substantially are substantially are substantially seen in incomplexeent bulbs

The matter of accurately localizing foreign material which shows on the test plutes is of exceedingly great importance, since in a given case at may mern the axing or the loss of an eye Sacet's method has been adopted by the author as a basis for his warf. By criing a number of case in which mistakes have been mide by oculists in

ignoring the value of X rays or in depending upon the results of incompetent workers, the need of mathematical precision in technique and guarded acceptance of the localization by a radiologist of unknown ability is made clear

HOLLIS L POTTER

Ormond The Fye in Relation to Tuberculosis.

Practitioner 1913, xc, 256

By Surg , Gynec & Obst

It is Ormond's experience that the majorits of patients who have had proved inherculous lessons of the eye have been robust, healthy looking people The subercle basilius attacks the ocular tissues much oftener than was supposed before the use of

Soch a Calmette a and Von Projuct's tests. Tuberculous of the conjunctiva is an infective granuloma which most commodly presents itself as an extensive inheration involving the forms and pulpebral conjunctiva. In the early stages miliary rulaterkis my, be seen but these soon break down, run togit their and form a conglomerate mass partial is ulcrated with outlying tuberless and thickened orientatious areas together with hypertrophe granu titions. Yn ulcre of this deception, Indeen as it is in the loose folds of the conjunctiva may only draw attention to its easterney to a slight fullness of the

lid with watering of the eyes The preauricular gland is involved early ulceration of the conjunctive is most frequently found in young people at or near the age of puberty An absolute diagnosis of tuberculosis of the con unctiva can only be made by bacteriological eximinstion. Phlyctenular consunctivitis is not tuber culous but is probably due to tuberculous toxemia A chronic iritis, with few inflammatory symptoms and without an obvious etiological factor, should arouse suspicion of the tubercle bacillus being a possible cause of the condition A typical case shows the presence of tubereles in the iris, generally on the anterior surface near the papillars or peripheral margin. Tuberculous iridocyclitis is usually chronic with slight redness slight pain and slight watering of the ever. The interference to sight is greater when the ciliary body is involved than in intis alone. The tuberculosis of the choroid associated with tuberculous meningitis has been well known for years but of late in choroiditis of doubt ful origin laborators tests have given positive reac tions and tuberculin treatment has in some cases In tubercular keratitis the given good results whole cornea is never involved. It is characterized by the denseness whiteness and patchiness of the infected area in which the small islands of opaque These generally are situated at the ness appear periphery, and are whiter than those due to syphilis. the surrounding cornea is perfectly clear

It is possible for the luchly malsac to be the site of a primary tuberculous invasion but that is of rare occurrence being more common secondury to infection of the masal mucous membrane. In ocular tuberculosis, general treatment is of the greatest importance The large ulcers of the conjunctiva should be kept as clean as possible, the eyes being washed out three or four times a day with iodine water, the surface of the ulcer scraped, and iodoform powder dusted on If the preauricular gland or supraparotid glands are softening, they should be opened and curetted Tuberculin should be used an injection of oool mg being given every to to 14 days, the temperature being taken and the general effect and pain being noted after each injection. In iritis a per cent atropin and an iodine solution should also be used Ormond has been pleased with the improvement in corneal opacitus, the result of tubercular keratitis following the use of injections of air or oxygen under the conjunctiva Before the advent of tuberculm treatment many surgeons maintained that intraocular tuberculosis necessi tated removal of the eye It is, however, rare for intraocular tuberculosis to be primary, and general dissemination rarely happens, many cases happily resolve under treatment Excision is justifiable if the condition steadily grows worse under treatment and the general health is being undermined by the local condition. A shrunken phthisical eye should be removed, care being taken to prevent general dissemination of the bacilli present, which might follow the opening of the globe or the cutting into any caseous masses in the orbit C G DARLING

Friedenberg Visual Symptoms of Accessory Sinus Disease. Ophth, 1913 ix 186 By Surg Gypec & Obst

Many s, mptoms of progressive sinusits and all most all of the strones complications are outlar or orbital in character. On the other hand careful special tests of visual function may establish a diagnoss of accessory sinus disease before nasal symptoms have become sufficiently marked symptoms have become sufficiently marked traction. In many cases the oculier is the first one consulted and it is his responsibility to recognize the ocular symptoms characteristic of such infections. This is most important when actual nasal discharge is absent. A careful and through massil examination should be made as a superficial one may lead to an unwarranted sense of security.

From the oculist's standpoint, the most practical method would be to consider in their order, first, local signs of inflammation such as ordema disturbances of position or motility of the globe, local pain and tenderness, and then the functional disturbance of vision for form, light, and color, with their respective significance for diagnosis of accessory sinus disease From the clinical and diagnostic point of view we must also consider the various types of sinus disease, and examine the sinuses separately for special symptomatology as indicated by ocular involvement characteristic of each Among the more evident agencies, we have to deal with nerve irritation, either in the form of reflexes or from direct action of toxic substances, mechanical pressure, or hyperæmia from vascular involvement

Among the superficial reflexes are lachrymation, clone or tours spasm, and flexing ecdemic of the lids independent of inflammatory processes, transent conjunctival or seleral injection, and meiosis Among the secretory neuroses noted are transent rise of intraocular tension, or a pronounced glazonm disappearing promptly under nasal treatment. It is possible that witerous dust and some lenticular opacities may be due to disturbed nutrient of the choroid dependent on long continued reflex irritation, although tour does not go of more or less continuous pain in and about the eyeball, radiating to the temple, brow and occiput, have been reported

The symptom-complex of osthenopia is frequently found in long standing sinus disease Disturbances of central vision and the field for white or color can bardly be explained on the basis of reflex erritation and give evidence of direct optic involvement. Motor disturbances manifesting themselves by limitation of ocular excursions are generally an indication of mechanical interference by dislocation of adjacent structures, such as bulging of a sinus wall mucocele empyema, cellulitis or pus in the These conditions may also affect the ontic nerve directly when the ophthalmoscope may show neuritis, choked disc and later atrophy. In optic nerve affections having their origin some distance behind the globe a retrobulbar neuritis is the rule The commonest form of field defects are a central or paracentral scotoma a ring scotoma, and irregular central defects, frequently without ophthalmoscopic findings Another form of central defect which is pathognomonic of optic nerve affection based on accessory sinus suppuration is the enlargement of Manotte's spot This scotoma is a negative one In a large series of cases of posterior sinus disease Van der Hoeve noted an invariable enlargement of the blind spot, while in anterior disease this symptom was missing Central color scotoma was always a later symptom The absolute size of the scotoma is not diagnostic C G DARENO

Attias. The Intrascieral Nerve Loops. Ann Ophth, 1913, xxxx, 73 By Surg, Gynec & Obst

Attuss has exhaustively exammed serial sections of anterior halves of eye for the purpose of studying the topography of nerves in this portion, and furnalises three additional cases of intrascleral nerve loops. Axetifeld first reported the peculiar course loops. Axetifeld first reported the peculiar course for the control of the contr

sclera and entered the cornea, acting thereafter like all other large corneal nerves. Two smaller loops, evidently much less numerous than the larger ones, were found to penetrate the selera for a distance not greater than 100 micra. One was made up of all the fibers of the nerve, in the other, the central fibers ran straight by the opening, and only the outer bundles entered the scleral tissue of these two structures gave off a branch to the sclera, and but one was found near a small vein and These loops are most often found under the superior rectus but in one of two cases here reported they were situated under the insertion of the external rectus Apparently Axenfeld described a case where the loop was seen inferiorly The distance of these emissaria from the corneo scleral junction varied from 1 7 mm to 3 5 mm, and their direction was not always perpendicular to the surface but often oblique

The author believes he can conclude with great certainty that the fibers within the intrascleral portion are more tortuous and of somewhat smaller caliber than in their extrascleral course that they are medulisted throughout, that no ganglion cells can be demonstrated in the caps of the loops that a small amount of connective tissue is present be tween the fibers and that on account of the large branch given off in the one case the distal arm of the loop was thinner than the proximal Attus does not give to the accompanying vessels the same importance that other observers have accorded them and does not believe, on account of their small size, that to them alone can be ascribed the origin of these The simplest explanation of these would be that these calary nerves have grown too long for the bull and necessarily have become bent ough embryological investigations too are necessary to obtain certain explanations for the origin of these FRANCIS LANE neculiar structures

Sattler: Short Clinical Accounts with Microscopic Demonstrations of Two Cases of Tumor of the Optic Nerse Arch Ophia 1013 By Surg , Gynec & Obst

A fibrostrooma of the optic nerve of slow growth with almost unimpaired vision until 5 months before operation increasing exophthalmos, with irritability of the eye from exposure yet with perfect mobility of the globe made surgical interference a necessity The tumor was removed with resection of the outer wall of orbit (Kronlein), the globe preserved, and the hids closed with temporary sutures

Ine days later the eye was removed on account of involvement of the cornea Sixteen months later the apex of the orbit was occupied by a dense, flattened, punless mass There was also a slight prominence of the left eye The patient reported two years after the operation that his health was good except for some loss of weight The other case, in a boy aged four, was that of an intradural fibrosarcoma of the optic nerve, with rapidly advancing exophthalmos of the right eye The condition had

been noticed by the parents for five months, and during the last month there had been an increasing stritability from exposure and insufficient lid pro-There was perfect mobility of the globe A tumor was removed without resection of outer wall of the orbit, and an encapsulated, hard, egg shaped mass, fully one inch long, was removed. An attempt was made to save the globe, but it became necessary seven days later to enucleate it Fourteen months later patient was reported in good health C G DARLING

The New Antiglaucomatous Operations J Ophthal , 1913, 11, 195 By Surg , Gynec & Obst

The first operation for combating glaucoma was the equatorial sclerotomy of Guerin, now known as posterior sclerotomy and considered an operation of urgency permitting the crisis of acute glaucoma to be passed without the vision being definitely compromised

Iridectomy (applied by you Graefe) was used and advocated for thirty years, until the desire for better results brought out the idea of creating a tiltrating cicatrix Attempts to obtain this were made by incarcerating the iris or a conjunctival flap, and by a subconjunctival shutter (Harman) (sclodialysis (Heine) is an attempt to obtain in ultration into the subchoroidal spaces and seems especially recommended in cases where the anterior chamber has disappeared where the tension is very much increased cases complicated with luxation of the lens hæmorrhagie glaucoma hydrophthalmia, in cases where iridectomy has failed and in glaucoma following cataract operation. Cyclodialysis has an important literature of its own

Subconjunctival fistula at the limbus was proposed by Laterange (sclerectomy) and modified in several ways by others - Treplane (I fliot) is largely used. These operations are done either with or without an indectomy

The author advises keeping in mind posterior or equatorial sclerotomy and using it in emergency. especially in post-operative acute glaucoma, or as a preparatory operation EARLE B FOWLER

Grunert The Operative Treatment of Keratokonus Ophik , 1913 1x, 163

Ily Surg Gynec & Obst

Grunert treated 11 eyes in 8 patients by his method of operation He believes Lisching's method has the correct principle, but does not go far enough

His operation is done in three stages First, using an electrode with a flat tip and beginning at the upper limbus he cauterizes for 20 to 30 mm. the burn reaching into the parenchyma. Then, with the linest wire tip this line is extended into an equilateral triangle, one corner being continued as a fine line to the center of the cone

Two days later, under general narcosis, the slough is scraped off, and the cornea is split along the middle line from the center to the limbus. The central mendian of the cornea is then covered with a conjunctival budge after Kuhnt's method. Four weeks later the flap is transplanted back. After the second stage of the operation the patient remains in bed 6 to 8 days esent or pilocarjan being used at each dressing. When the sutures do not cut spontaneously they are removed on the sixth day. Only after repeated and lasting subjective examination can one find the cylindrical correction which should be worn.

Roy: Syphilis of the Eye. South M J, 1913, v1 13 By Surg, Gynec & Obst

The importance of syphilis in ophthalmology cannot be overestimated Many obscure lessons connected with the cyc where there was absoluted to history of syphilis have been permanently cured by the use of antispecific remedies. If it were not for the so called "enercal diseases" the work of the ophthalmologist would be lessened at least one half, if not two thirds

There are two forms of syphilis of the eye (a) acquired and (b) hereditary In the acquired forms we have the initial lesion around the eyelids as a possible location. In the secondary stages we have various manifestations.

have various manifestations I Lids Thickening of the tarsal cartilages. with marginal ulcerations 2 Cornea Diffused keratitis, and especially ulcers are most frequently Negroes especially are hable to this condi-Unless treated vigorously, such lesions are very destructive. Acquired interstitual keratitus is rare, but does occur 3 Iris Iritis with a syphilitic etiology is well known. It is the cause in nearly eight tenths of these cases. It manifests itself from the simplest forms to the most destructive 4 Intraocular Choroiditis with vitreous opacities and retinal hamorrhages - these and many other conditions are manifestations of syphilis Many cataracts are the result of syphilis caused by nutritive disturbances 5 The optic nerve is not infrequently involved, and many atrophies of this structure, if not the large majority, are probably syphilitic 6 Extransic muscles of the eye Paralysis of the sixth and third nerve are by no means infrequent, and practically all have a syphilitic etiology 7 The orbit and its adnexa sometimes show various syphilitic lesions In the hereditary syphilis the eye manifestations

In the hereditary syphilis the eye manifestations are also varied Congenital opacities of the cornea, staphylomata, occluded pupil, various forms of polar cataracts, hydrops oculi, these and many others are congenital syphilitic manifestations

The author puts more confidence in the mercury and iodides than he does in the salvarsan injections Samuels Peribubar Implantation Cyst after

Removal of Staphyloma of Cornea. Arch Ophth, 1913, xlii, 12 By Surg, Gynec & Obst Three years after the excision of an anterior

Three years after the excision of an anterior staphyloma, a cyst which completely surrounded an atrophic bulb more than filled out the space normal-

ly occupied by the eyeball The staphyloma involved three fourths of the normal corneal area and was accompanied with severe conjunctivitis, ciliary injection, and traumatic ulcer

For the removal of the staphyloma the conjunctury was freed at the limbus, the rect tentotomized, the cicatins then existed, the free edges of the selera suitared, the tendons fastened over the closed selera, and lastly the conjunctiva sutured over the wound. The cyst with the shrunken bulb attached to its unner posterior surface was dissected out and examined microscopically

The nall consusted of dense connective tissue inced throughout with stratified epubelium without a basement membrane. This epithelial lining spread completely over the scleral wall of the enclosed eyeball, which latter showed the characteristic findings of atrophy built, so that no communication custed between the cyst cavity and the internor of the built.

The clear limpid fluid contained broken down

Only four analogous cases have been recorded and all followed the excision of anterior staphyloma. In three, the cysts were only epibulbar and differed further from this case in that communication occurred through the unclosed sclera into the interior of the eye. The remaining case was epibulbar without extension into the eye.

The author's case is the most extensive on record, since it mostled the whole of Tenon's space. The cause for such formation has been attributed to an invagination of conjunctiva by sutures, an ingrowing of epithelium during the process of healing, or to implantation of fragments of epithelium under the sutured conjunctiva.

Careful suturing of all conjunctival wounds is recommended as the most probable preventative of such occurrences Joun B Ellis

EAR

Coates. Bismuth Paste in the Ear and Nose.

N 1 M J, 1913, xcvu, 112

By Surg, Gynec & Obst

Without going into the use of Beck's bismuth paste in its application to general surgery, the author confines himself to his experience with it in car and nose conditions. In his experience, its greatest value for the aurist is to promote quick healing in post operative sinuses such as follow the simple masterd operation where the blood-clot dressing is not used In these cases it is found that the time of convalescence is very materially shortened, and the patient is relieved of the discomfort of prolonged packing The paste dressing is not applied until the middle ear entirely or almost ceases to discharge One or two injections of the sinus usually suffice to permanently close the wound In cases where the radical mastoid operation has been performed and where dermatization is delayed, the paste dressing lessens discharge and promotes healthy granulation

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The simple technique is described and Beck's different formulæ given Hays Four Cases of Subperiosteal Abscess in

Adults Complicated by Perisinus Abscess; Operation, Recovery Am J Surg 1913, xxvu, By Surg , Gynec & Obst

hach of these cases suffered from trouble with the ear for at least six weeks, and although extensive destruction had taken place the operative recovery was rapid and uneventful. The condition is more common in adults than is generally supposed. The chief interesting feature of the cases was the long duration of the trouble with apparently little pain The mastoid is usually almost entirely destroyed by pus, but the draininge from the middle ear being free, little pain is experienced. The lesson to be drawn from these cases is that there are many cases of acute mastorditis which apparently subside and leave no indication except a continuous discharge of thick pus Suddenly a swelling of the canal and the tissues over the mistoid is seen indicating the presence of an absects. One should be careful not to prognosticate too early for what is apparently a condition that is guiting better is actually a condition that is getting work

Milligan: Treatment of Meningitis of Otitic Origin Lancet Lond 1913 clausev 226 By Surg Gynec & Obst

Milligan finds it most convenient to classify lepto meningitis into simply serous and nurulent disregarding more elaborate classifications. Dur ing the scrous stage and while the disease is still localized, it is a fit condition for operative treatment When the text book symptoms of meningitis have developed recovery is nearly impossible. Hence in suspected cases Milligan is guided by examina tion of the spinal fluid. An increasing acid content increased albumin, and the absence of Lehling's reaction, he regards as very sure indications of the progress of purulency A fluid not acid even though turbid, gives hope of a favorable outcome of opera tion He lays less stress on turbidity cell count or negative bacteriologic findings

In addition to ordems of the optic papilla as an early sign he has found a lowering of the upper tone limit in the sound ear probably due to the

same mechanism as the optic neuritis As to treatment he regards all cases not con sidered purulent as operative Operation should Lumbar puncture or continuous be done carrly spinal draininge he regards as inferior to a decom pression of the skull with drainage, always in addition to the removal of the original focus. If the laby rinth is the primary focus, its complete removal with drainage, is advised. Usually he performs an occipital decompression in order to avoid infecting the cerebro-spinal fluid. The internal ear is in Milligan's opinion the most frequent avenue of infection and the most dangerous, because it leads to direct infection of the posterior fossa "Tym

nanic" infections are more localized and less difficult In the former a complete labyrintheetomy in addition to a complete post aural operation should be performed Any pathological tract leading into the cranium should be followed and free dramage provided by removal of as much surrounding bone as may be necessary.

In spreading meningitis, the difficulties of treatment are greatly increased. The objects of operation are (1) relief of intracranial pressure with the resultant startation of the tissues, (2) the estab lishment of free drainage from the meninges and (3) the overcoming of the existing toxemia Ac cordingly in addition to the opening of the skull, Milligan splits freely or excises the dura. He is in favor of Haynes' method of decompression in spite of his own somewhat unfavorable results, due to the nature of the cases. This method drains the cisterna magna through the cerebello meduliars angle thus doing away with troublesome bermation and draining the natural reservoir of pus

Milligan a records show 17 cases of serous meningi tis, so-called with 20 recoveries. Of the 8 fatal cases the cerebro spinal fluid became definitely

purulent in all Of the cases diagnosed purulent meningitis before operation there were 14. Lour cases seemed hopeless before operation and died. Of the remaining to where there was a chance of recovery. 6 died, and 4 (or 40 per cent) lived

CARL FISHER.

Milligan Tuberculous Disease of the Ear Prac litioner, 1913 xc, 248 By Surg , Gynec. & Obst Tuberculous disease may attack the external middle or internal ear, and may be a primary or

secondary infection Temporal bone tuberculosis, which is usually secondary to tuberculous disease of the middle ear cleft, leads to tuberculous infection of the meninges and intracranial abscess. These infections are

Tuberculous disease of the external ear is rare Lupus vulgaries is the common form met with in children and young adults. The nodules break down form ulcers with indentated edges, and spread superficially Lunus hypertrophicus is character ized by excessive granulation tissue Lupus erathematosus attacks the auricle with a symmetric appearance I or treatment, each nodule should be destroyed by cautery or strong caustic

usually of septic origin

Tuberculous disease of the middle ear is primary or secondary Primary in infants and children attacks the petromastoid and mucosa The chan nels are (1) aerial, (2) lymphatic, (3) vascular and (4) lymphoid tissue along the Lustachian tube Secondary infection of the middle ear is found amongst those suffering from advanced phthisis, as tuberculous disease of the laryny, pharynx, etc The pathology is the characteristic tubercle with multiplication of epithelioid cells. Symptoms are rapid inanition hight sweats, diarribora and atypical

pulse, locally, those of acute ottis media, with or without pain. The membrane tympian ispers pile, flabby and exdematous and may have one or more perforations. Enlarged glands and facial paress are frequent signs. Tuberculosis of internal ear is usually secondary to middle ear dis case and as a rule by way of fenestra oatls. The static and acoustic segments are early affected, and a search for the tubercle bacillus should be made to clinch the diagnoss:

For treatment there are two classes (1) The inoperable, infants in poor health and (2) the operable, where disease is primary and within the limits of surgical intervention What II Theobold

Turner and Fraser. Otosclerosis. Edinb M J,
1913, x, 71 By Surg Gynec & Obst
The authors discuss the subject of otosclerosis,

especially from the anatomical and pathological standpoint, emphasiang the fact that normally the membranous labyrinith is surrounded by two distinct layers of bone. The inner layer, the labyrinith capsule proper, is derived from the cartilaginous oft capsule of the embryo, the outer, surrounding this cartilaginous bone, is formed from the deep byer of the ty impane mesoperosetum of the petrous

"Otoschross is characterized by changes in the structure of the bone surrounding the labyrinth, leading in most cases to ankylosis of the stapes. Portions of normal bone, especially around the oval and round windows, are affected and replaced by spongy ostioud issue, which later becomes destroyed. This process is supposed to advance along the blood vessels. In some cases there is even degeneration of the nervous structure of the labyrinth. All writers are agreed that the bony changes are inflammatory, but as to the primary site of the onset there is much disagreement."

The disease, from an etological standpoint, is said to be a local manifestation of general tonic conditions. Bezold found heredity a factor in 59 pet cent of cases. Hammerschlag includes progressive nerve deafiness and bereditary deafinutus under this same head. Ferreir considers the condition to be a latent autointoxication of rachitic or osteomalacie orien.

The symptoms and functional examination are taken up herely, and under the heading of diagnosis the condution is summed up as follows I: Gradual mosted of progressive deafness and tinnatus 2. His tory of hereditary deafness in the family 3. Fatenth Aears better in a noisy place 4. The tympanic membrane is normal 5. A red shimmer from the promonitory may be seen through the membrane 6. The Editarchian tube is pattent 7. Loss of the Control of the conduction of the conduction of the conduction of Bone conduction of the conduct

As far as recovery is concerned, treatment is useless, the patients are encouraged to learn lipreading while the hearing is still useful EUGEYE CARY

Holmes The Value of the Blood Clot in Operations for Acute and Chronic Mastolditis.

Lancet Clinic, 1913, cir. 64 Dy Sung, Gynee & Obst.
The credit of this method belongs to Clarence
J Blake of Boston The percentage of successes is
so great that it is the method par excellence, especrally in chronic cases Added to this are other distinct advantages after treatments are devoid on
nain, the period of convolsescence is shortened, dis-

figurement is avoided, and better results in bearing

are obtained
The success of the blood clot method depends primarily upon climinating as nearly as possible all infective matter, and secondly upon the bacterickal properties of the blood. It has been proven that clotted blood has greater bacterickal power than circulating blood. Even if the clot should break down, the bony cavily has great osteoplastic activity down, the bony cavily has great osteoplastic activity hours, these finally form a glistening lining membrane in the exist.

At the completion of the operation the wound is synaged forrolly with percovide, and some is injected into the Eustachan tube. Then the cavity is filled with percoule for 4 minutes, fresh solution being added from time to time as it outdies. Following the control of the cavity is the control of the cavity is the control of the cavity is proposed to the cavity in the cavity is the cavity and the cavity is unabled with a saturated solution of birarbonate of soda, this is allowed to remain an equal length of time.

A supply of fresh arternal blood is now secured from the post auricular artery and the cavity filled therewith. The external canal is converted into flaps according to the Neumann method. The perosteum is carefully sutured with catgut, bridging across the cavity perfectly, overlying this is the external flap, which is closed by metal clamps. No drain of any kind is used. To prevent the dressing from soaking the blood out of the canal, the aircle is covered by a piece of gause saturated with petrolatum. After 48 hours the bandage and clamps are removed.

Fifty, cases were reported 17 acute, with 41 per cent of perfect results, 4 to the blood elet not break ing down, and 33 chronic cases, with 82 per cent of perfect results. "In the acute and chronic cases, with partial breaking down of the clot, the upper three fourths of the sear also, shell perfectly, and the osteoplastic activity created by the blood clot during the 48 to 72 hours prior to the beginning of the partial breaking down had in this short time laid the foundation for the new himing membrane, thereby favoring much more rapid healing than would otherwise have taken place".

SURGERY OF THE NOSE, THROAT, AND MOUTH

Skillern Anomalous Internal Carotid Artery and Its Chalcal Significance in Operations on Tonsils J Am M Ass, 1913 lx, 172 By Surg , Gynec & Obst

In view of the increasing number of operations on tonsils, and because of the popularity of complete ablation in preference to partial tonsillectomy, the author describes the following specimen

Left side of skull containing internal carotid artery in situ and dissected free from surrounding tissues, uniform caliber, walls neither thick nor

calcareous From skull and extending two thirds of distance of bifurcation of common carotid, an S shaped tortuosity bends not greater than 1 cm from normal axis of artery, bringing artery in closer relation to left tonsil Right internal carotid was normal Other examples described (Wood) a gurl aged five, and a boy aged seven Right side of pharynx projected almost to median line, pulsating vessel size of lead pencil extended from below upward and in ward to point opposite uvula then slightly outward and downward Several similar cases are described, in one of which there was a pulsation of posterior palatine pillar, with large vessel immediately be hind, and an audible systolic bruit This anomaly is more frequent in women than men Demme saw in to oco patients, pulsation of pharyngeal wall in 2 Der cent

Conclusions drawn by author Before all opera tions on the pharynx, make thorough ocular and digital examination for pulsations If operation is indicated in presence of this anomaly, ligature of internal carotid opposite upper border of thyroid cartilage If doubtful whether anomalous artery is internal carotid or ascending pharyngeal, occlude common carotid at same situation with a Matas clip If artery damaged during operation control by compressing common carotid against Chassaig nac's tubercle, followed by ligation

F C WINTERS

Marshall: Correction of Nasal Deformities, Particularly External Lateral Deflections and Depressions, with Obstructing Deviations of the Septum. J An M Ass, 1913 k, 170 By Surg , Gynec & Obst

Marshall confines his paper to disfiguring deformities only, most of which are combined with serious nasal obstruction. He has operated 33 cases of this type, with infection in two cases de laying healing about two weeks He describes a technique which he devised seven years ago, the essential feature being to cut through the nasal process of the superior maxillary bone, avoiding injury

to the lachrymal duct. Incision is made directly over the nasal process of the superior maxillary hone at the point where the elevation which makes the nasal prominence begins. The incision is made parallel with the normal line of the nose and is about 0 25 cm long Pressure is made at the point with a beyeled chisel which penetrates the pasal process. great care being observed not to go beyond the bone Without enlarging the skin incision, the chisel may cut the bone as far as desired. After withdrawal of the chisel, pressure is again instituted by an assistant while the operation proceeds in a like manner on the opposite side Then, by means of a long handled broad bladed forceps such as the Ashe septal forceps, with one blade in the nasal passage and one outside, the mobility of the nasal

process is completed by fracture

The upper part of the nasal process can usually be made mobile at the sutures between the lachrymal and the nasal bones on either side. If there is nasal obstruction through malposition of the septum the septum is seized with the same forceps and forced into position by loosening its articulations with the septum without separating them. The nose is not likely yet to be in a straight line, the defect lying at the suture between the frontal and the upper ex tremities of the two nasal bones and both processes of the superior maxillary bones. This can be cor rected by a sharp stroke with the mallet at the point guarded by a rubber-covered lead plate, the force being directed downward from the frontal bone and toward the deflected side Elevation can be assisted with a large urethral sound If pressure has been kept on the point of incision for a few minutes there should be no extravasation of blood, and the wound will heal by first intention The incisions are cov ered with iodoform gauze and collodion. The lower part of the external nose is incased with a collodion dressing L G DRAN

Kaempper. Suspension Laryngoscopy. N 1' M. J. 1013 XCVN 21 By Surg. Gypec & Obst

The recently introduced suspension laryngoscopy of Killian bids fair to be as great an advance over direct laryngoscopy as that was over the older indirect method

The instrument consists of a sort of gallows, fastened near one end of the table, from which the patient's head is suspended by a hook, while a spatula bolds back the epiglottis and depresses the tongue into the floor of the mouth When in position, the head is free of the end of the table and an extended view of the entire larynx and pharynx can be obtained

Twenty per cent cocain with a few drops of adrenalin is the anæsthetic employed Morphin scopolamin is recommended for patients not tolerant At times a general anaesthetic is under cocain required In children under sixteen cocain or morphia scopolamia should not be used

In the introduction of the instrument the tongue is drawn out as far as the edge of the teeth. The spatula is passed along the tongue until it touches the posterior pharyngeal wall. It is then raised until the epiglottis is engaged and a view of the larynx obtained The hook is then suspended from the gallows and the head allowed to hang by its own neight

The advantages that this method has over the older methods are that it allows the operator the use of both hands at brings the larynx so near that manifestations are permitted which are impossible with any other method of approach and blood and secretions tending as they do to flow toward the roof of the pharynx, can readily be wiped away There are no contraindications The difficulties and dangers are those encountered in direct laryn goscopy and bronchoscopy

Some fifty cases were reported by Killian in his original paper. They fall mainly into two groups laryngeal tuberculosis and papillomatous growths In the former class of cases the lary nx was thoroughly curetted and the tubercular granulations removed at one sitting, and in only a few instances was a second operation required. The papillomata occurred mainly in children There were no untoward symptoms resulting from the suspension in any of the reported cases

Pettit: Incipient Tuberculosis of the Larynx. N Y M J , 1913, ECUR 122

By Surg , Gynec & Obst

The most frequent site of larvingeal tuberculosis is the posterior end of the vocal cord and the interarytenoid space The first sign of its presence on the posterior wall is a diffuse or circumscribed thickening, and we find small nodules, a well defined infiltration, or a cone shaped tumor projecting into the lumen of the glottis Ulceration may start as such or be the result of caseation or fatty degeneration of an infiltrate

Usually the appearance of the lesson is distinctive, and as a rule a thickened pachy dermatous patch in the interarytenoid space is likely to be tuberculous, if there are demonstrable lesions in the lungs, it is tuberculous A beginning gumma causes more inflammatory reaction, and is usually in the poste mor part of the false cord A beginning carcinoma is usually in the anterior part of the larynx, and the disturbance of motility of the cord is out of all proportion to the apparent size of the lesion tuberculous ulcer is characteristic. Its edges are thin, irregular, undermined, and have a peculiar, nibbled look, its floor is nodular

The submucous cauterization consists in the

application of a specially constructed electrode near the demarcation of diseased and healthy tissue, but far enough away from the latter so that the heat necrosis will just reach it Pressure is applied until the tip of the electrode has sunk into the tissues to a depth corresponding to the vertical extent of the lesion. When the whitened cauterized area has reached the normal tissue the current is turned off and the instrument with due care is withdrawn Healing takes place either by the sloughing off of the cauterized area or it becomes converted into a mass of dense connective tissue

Weatherbee. The Operative Treatment of Cleft Palate. Conad M Ass J, 1912, 111 25 By Surg , Gynec & Obst

The history of cleft palate operations is reviewed Until 1868 the earliest age for operation was fifteen years. At present all surgeons are agreed that operation should be performed under three years of The exact time is still in dispute, but there is a tendency to the earlier operation

There are three methods now followed for closing the cleft palate, viz Brophy s, the flap operation of Davies Colley as modified by Arbuthnot Lane. and Langenbecks, sometimes spoken of as the median operation

In Brophy's operation the age of the patient should be between ten days and three weeks operation consists in thrusting the two superior maxillary bones together, holding them with wires and lead plates and then adjusting with sutures the newly pared edges of the cleft. The soft palate is united at about the age of sixteen months Brophy also advises closure of the lip two months after the first operation

The turnover flap method of Lane is done as soon after birth as possible The principle underlying the various methods is to close the cleft by mucoperiosteum in the case of the hard nalate and by mucous membrane and submucous tissue in the case of the soft palate The harelin should be closed at the same time

Langenbeck s operation is carried out between the ages of one and three years, according to the extent of the cleft The operation consists in detachment of the mucoperiosteal tissues from the oral surface of the bony palate, detachment of the soft palate from the posterior edge of the palate bones, paring the margins of the cleft suturing the pared edges, and making if necessary, lateral incisions to relieve tension

In any method, the mouth should be in good condition and the general health should be good anæsthetic should be chloroform The after treatment and the late after treatment are very important especially training in speech The treatment by obturators is not satisfactory

The author concludes that as yet the evidence is not sufficiently strong to convince one as to which is the best method of operation

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The International Abstract of Surgery is designed to meet the demand for a comprehensive, accurate and authoritative review and index of the surgical literature of the world To accomplish this, reciprocal agreements have been entered into with the publishers and editors of the three leading abstract journals of Europe Journal de Chirurgie, Zentralblatt für de gesamte Chirurgie und ihre Grenzgebiete, and Zentralblatt für die gesamte Gundkologie und Geburtshilfe soure deren Grenzgebiete. From these three tournals the International Abstract of Surgery is to receive reviews and indexes of the surgical literature appearing in journals published in foreign languages, while a representative editorial staff for America and the British Empire, supplementing the present staff of Surgery, Gyne-COLOGY AND OBSTETRICS, has been organized to prepare reviews, abstracts and indexes of the surgical articles appearing in American and English publications, and to translate and edit the material furnished by our foreign contemporaries

This plan will not only insure comprehensiveness, but with four strong editorial staffs representing the different languages and able to speak authoritatively concerning the contributors and their work, it provides a journal which for accuracy and authoritativeness must be superior to any publication that might be brought forth by one editorial staff attempting to cover all countries and languages

The new publication will possess the following scope t An abstract of the surgical literature of the world prepared by the combined efforts of our French and German contemporaries and our own staff for Great Britain and America. This will be arranged anatomically and will include abstracts and reviews of original articles, monographs books and clinics 2. A complete index of all surgical literature, anatomically arranged, giving the name of the author, title of communication, and name and date of the publication in which the same appeared

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Zentralblatt für die gesamte Chirurgie und ihre Grenzeebiete-

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INTERNATIONAL ABSTRACT OF SURGERY

JUNE, 1913

ABSTRACTS OF CURRENT LITERATURE

GENERAL SURGERY

SURGICAL TECHNIQUE

ANÆSTHETICS

Kisch Ether-Drop Auresthesia After Preceding Injection of Pantopon-Atropine-Sulphuric Acid (Über Athertropinarkoem nach vorhenger Injektion von Pantopon Atropinachweiteläure) Munchen med Webnicht, 1031 K. 352

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb Preceding 300 ether anasthesias nantonon (0.02) and atropine sulphuric acid (a oot) was given hand dermically instead of morphine (o or) Immediately it was found that certain disadvantageous pharma cological properties of morphine such as decrease of pulse rate slowing of respiration intestinal atony, vomiting and bronchitis, occurred either not at all or less frequently The essential factor the prevention of the stage of excitation during anasthesia and thereby a decrease in the amount of ether used, was obtained with pantopon just as well as with morphine. The time of giving the injec-tion is important. Pantopon acts best if it is administered exactly one half hour before anxithesia is started. In a series of so cases the stage of excitation was eliminated 40 times and occurred in a mild degree only once If narcosis was induced earlier or later than one half hour after injection of pantopon it did not show such a favorable course If the anæsthetic was given immediately after the injection, the stage of excitation was not even eliminated in one half the cases Atropine sulphuric acid is preferable to atropine sulphate, also half as poisonous, containing 10 per cent less atropine vet it is equally active in the suppression of salivation It acts most safely and intensively if given 30 minutes before the ether, the same as pantopon An ampule containing pantopen o oz and atropine sulphurie acid o oor is on the market.

Luke A Case of Extensive Subcutaneous Emphysema Following Intratracheal Anæsthesia, with Recovery Surg Gynec & Obst. 1, 213, xx1, 224 By Surg. Gynec & Obst.

Kate S age 36, was operated upon under intracheal anarshesia for tumor of the cerebellium Intubation was easily accomplished and the patient mas placed in a complete ponce position, with end over the end of the table and strongly flexed. From the beginning there seemed to be some obstruction to the air current and occasional moderate cyanous developed. The draping was too elaborate for good observation of the patient. After about 3g minutes a severe eyanous developed. This swelling also extended down the anterior and posterior cheet, all of which gave the characteristic crackle of subcutaneous emphysisma.

The patient appeared monitum of the tube was immediately removed, and with artificial reportation there was improvement enough to complete a decompression. Most of the emphysema disappeared during the next few days. There were no publication and a second operation was performed with plarygaed monification ansiebasto. Beath occurred five days soldands of the second operation was performed with plarygaed with a second operation was performed with plarygaed modification ansiebasto. Beath occurred five days obtained. The accordent may have burdenly well as the second of the said bags beneath the neck. Overdistention from inserting the catheter or excessive pressure of the said bags beneath the neck. Overdistention from inserting the catheter too far and plugging tightly a bronchus seemed very possible, No 24. Fr was used. The machine was not provided with an efficient safety valve to prevent excessive preserve in the lungs, and this is absolutely essentiated.

Graef: Methods of Using Intravenous Fther and Isopral Amesthesia (Bencht über Frishrungen mit den intravenoven Ather und Isopral Ather Narkosen) Bette z. klin. Chief., 1913, Ixxxii, 173

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb During the last 236 years 510 intravenous (151 ether and isopral ether) anasthetics were given at the aurgical division of the city hospital in Nürnberg without a single fatality The cases operated were some on the head and neck, on anæmic and cachectic individuals, peritonitis and diseases of the respiratory organs, hernias, and various gynecological operations Contra indications are the following myocarditis, marked arteriosclerosis, nephritis, murked acterus, cholæmia, plethora. In the pure ether narcosis there were 11 instances of a stage of marked excitation, thirty of light excitation amount tolerated was usually 250 to 400 cm of a 5 per cent solution in about five minutes. In a few cases as much as 1.800 to 2.000 cm were given without any injurious after effects. It can be combined with salt solution, digaten or adrenalin Hemoglobinuria can be avoided as a complication by shaking the ether solution well before using and using it freshly prepared Solutions stronger than 5 per cent produce hemoglobinuma. The danger of thrombosis is very slight. The after-effects are so slight that the patients preferred to be anasthetized "through the arm" The lowering of temperature was at most only 0 5 to 0 7°, and the change in does not often produce a lasting deep narcosis, the combination with isopral satisfies all demands More than 200 cm of the solution (= 1g isopral) was not needed to avoid the excitement stage strongest patient could be put into deep sleep by this method. As a rule, the tolerance for isopral solution was 120 to 150 cm in 3 to 5 minutes Lxcita tion rarely was produced. Occasional thrombosis disappeared rapidly Aidney injuries were only transitory An instrument made by Walb Nurn berg with three glass vessels, containing the follow ing, was used (1) 500 cm of 1 5 per cent isopril sol, (2) 2,000 cm of 5 per cent ether mixture and (3) 1.000 cm Ringer sol After the cannula has been inserted in the vein under local anæsthesia and with aseptic precautions, the isopral solution is allowed to run into the vein (not more than 50 cc per min) Then the ether solution is injected (about 70 cm per min) Linally the vein is flushed out with 50 to 100 cm of Ringer's solution Strict asensis sterile solutions slow injection are conditio sine qua non The article ends with a summary of the cases, giving the important points

Honan and Hassler | Taperlences with Intravenous Anæsthesia. Surg Gynec & Obst 1913 xvi, 206 | By Surg Gynec & Obst

In a prehiminary report of 51 cases of general anæsthesia by the intravenous route, the authors have used ether hedonal and a mixture of ether and paraldehy de In none of the cases was there a fatal

ity or an untoward symptom worthy of consideration The operations embraced laparotomies for various abdominal and pelvic conditions, herniotomies, arthroplasties, amputations, joint resections, bone plating thyroidotomics, as well as many minor By this method, anasthesia is rapidly induced the breathing is natural, color remains good. flexibility and muscular relaxation are absolutely satisfactory to the operator. They claim for this method that the points and areas of noci association are anaethetized and a condition apparently similar. if not identical, to the anoci association of Crile is obtained The pulse remains stable and at a low level throughout a protracted operation, the awakening of the patrent is prompt and with clear mentality. there is absolute absence of nausea and comiting, and the convalescence is remarkably rapid and satisfactory

It is particularly urged that strict attention be paid to details of technique to insure satisfactory results. For the intravenous use of ether, the patient is given morph sulph gr 1, scopolamine gr. le atropine sulph gr 114 subcutancously, about forty minutes before the operation 1 5 to 7 per cent solution of other is poured into a reservoir of 2000 cc capacity which is adjusted on a stand 8 feet above the floor level, at which point it remains during the entire administration. The fluid flows through a bulb which contains a pipette such as is used in Murphy a proctoclysis apparatus, then into a tube ending in a small blunt cannula apparatus is working properly the lower half of the indicator is filled with fluid while the upper half contains air The solution flows from the tank through the pipette and drops on the surface of the fluid in the lower half of the indicator. By means of a compression tap placed below the indicator the rate of flow can be accurately controlled, and if the fluid be kept at a proper level in the bulb a satisfactory index is furnished as to the rate at which the solution enters the vein As ether boils at 68 6° I it is absolutely essential that the solu tion be at all times much lower than that point Much satisfaction has resulted and no harm from using fluid at temperature of 85° 1 A convenient vem is selected in the arm or leg and the cannula introduced and tied with a ligature applying the technique such as would be employed in intravenous saline infusion for shock or collapse. The solution is administered at a full flow at the beginning, the anæsthetist reducing the stream on the appearance of the usual signs of surgical anaesthesia should be continuous, and can usually be reduced to 30 or 40 drops per minute after the anæsthesia has lasted half an hour. It is quite incumbent that the anaesthetist take unusual precautions to maintain a free air way as the drug employed is promptly exhaled and good an esthesia of any variety depends upon the prompt and proper removal of the carbonic acid equivalent from the tissues, also the medulary centers will be depressed by asphyxial blood. The degree of narcosis can be quickly and easily regulated by the anæsthetist, the corneal reflex and the character of the breathing furnishing the necessary Hedonal (methyl prophyl carbinol information urethrane) has also been used in the same manner, except that there is no preliminary hypodermic medication It is a stable substance, does not depress the action of the heart, may be sterilized by boiling, and can be administered at any convenient temperature. It is used in normal saline in a strength of 0.75 per cent solution caution is necessary with hedonal than with ether, as the effect is much quicker, and temporary respiratory arrest may follow if the stream is not promptly reduced on the appearance of signs of deep anæsthesia. The narcosis under hedonal is much like normal sleep very quiet and without stertor, blood pressure falls with the use of hedonal and rises somewhat with ether and this fact suggests the intravenous use of hedonal in an isotonic glucose solution in puerperal eclampsia. The convulsions would in all probability be entirely controlled by the hedonal while the dilution and elimination of the toxins by the infused solution certainly seems quite possible, this proposition opens a field in speculative therapeutics that might prove of great value mixture of ether 3 to 5 per cent and paraldehyde 3 per cent has produced very satisfactory anæsthesia, though a 5 per cent mixture of paraldehyde alone in saline solution showed marked crenation of blood cells with occasional pigmental spots in the cell body As paraldehyde is somewhat irritating to the larynx the stronger solutions sometimes produce a slight laryngeal spasm toward the end of a protracted operation. The time required to produce complete anæsthesia ranges from 11/2 to 23 minutes with ether while with bedonal the effect is accomplished in from twelve seconds to four minutes. If hedonal is used for operations lasting over an hour the patient may sleep 12 to 14 hours after the operation, this, however does not seem to be a disadvantage, but, as in all forms of narcosis much depends upon the skill and experience of the anæsthetist

Kasashima Pantopon-Scopolamine Narcosis (Über Pantopon Scopolamindammerschlaf) Beitr z Geburth u Gynök , 1913, xvii, 90 By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

The author reports on two series of gynecological operations—in the one morphise scopolamine in the other pantopon-scopolamine were used 1 nall cases lumbar anasthesia was used in combination with the narcoiss. The pantopon scopolamine series was more assistancity since the anæsthesia was disturbed only balf as often aud pain and abdominal contractions were less frequent. Although post-operative breakche was present in both series the pantopon of developed less vomitting and less bronchitis. The contraction of the pantopon of the pantopon of the pantopon of there was no death and the one case of post-operative collapse was charged, by exclusion, to the pantopon.

The technique of pantopon-scopolamine narrosis svey simple. One and one half hours before the operation ocs pantopon and occos copolamine are injected hypodermically. In an hour this is repeated. Ten minutes before the operation the lumbar anaesthetic (ocs to or 16 novocame no.) of the compart of the comparation of the report is a resume of pantopon experiments.

ADOLPH

Diwawin: Pantopon-Scopolamine Injections in Combination with Local Amasthesia (Uber Pantopon-Scopolami Injectionen bei Operationen mi lokaler Anasthesie) Zentralli f Chr., 1912, No. 51, 1729 By Surg., Gynec & Obst.

Complete consciousness during extensive operations under local anasthesia is at times annoving To avoid this Diwawin proceeds as follows patient receives o 5 of medinal on the evening before the operation to procure a quiet sleep. The following morning 11/2 to 2 hours before the operation a hypodermic injection of o o4 pantopon and o oco4 scopolamine is given to strong men and o o2 pantopon combined with 0 0002 scopolamine to women and weaker individuals. This produces a light sleep from which the nationt may be aroused holics the foregoing dosage usually does not produce this sleep Injection of the local anæsthetic-novocame supraremm (1 per cent) is frequently not felt at all Before opening the peritoneum a 10 per cent novocaine solution is applied, making the incision through this membrane painless. The severing of adhesions and pulling upon the mesentery of the appendix during ligation is felt by some as a dull pain Ligation and still more cutting of the hermal sac caused pain in some patients. Others complained of no sensations whatsoever, in fact were asleep during the operation Suture of the peritoneum muscles and skin was usually painless. The patients sleep as a rule for 2 or 3 hours after the operation to awaken then and subsequently to fall asleep again for a longer time. None complained of pain in the wound but all noticed a feeling of dryness in the mouth and thirst Vomiting with the above doses was absent It did occur when larger doses were used Alcoholic subjects do not tolerate the use of pantopon-scopolamine very well The application is followed frequently by a state of excitement, hallucinations, inco ordinate movements of the arms and legs In two patients this condition persisted for two days Seventy-two operations were performed with scopolamine pantopon, 35 appendectomes, 24 herniotomies including an incarcerated herma, 3 hæmorrhoid operations, I gastroenterostomy for gastric cancer, I exclusion of the bowel in tuberculosis of the cæcum, I removal of a sarcoma of the ovary 2 hydroceles, 1 excision of a tubercular epididymis, I enucleation of tubercular cervical glands, 1 opening of the

Alcoholism, grave diseases of the heart and lungs

as well as advanced age, may be considered contraindications against the use of pantopon scopolamine C C RIEBEL.

Lynch A Preliminary Report of Operations
Under Extradural Ancesthesia Med Rec., 1913,
1xxxii, 235
By Surg., Gynec & Obst

In this article the author gives an account of the technique which he has evolved. He is a strong advocate of this method, combining as it does safety, efficiency, and a minimum of after complications It insures a perfect anaesthesis, prevents shock and allows of any surgical procedure below the cul de sac of Douels.

By taking measurements from the posterior superior spine of the ilium to the left margin of the sacrococcygeal joint on either side, the opening of the sacral canal will usually be found where these two lines bisect. The skin around this point having been painted with tincture of jodine and sprayed with a little ethyl chloride, an injection of a 1 5000 solution of cocaine in an ordinary hypodermic needle is employed, in order to anæsthetize the skin so that a small incision can be made. The needle passed through this incision at an angle of about 15 degrees. is then inserted close to the bone for about one inch, and about 4 cc of a 1 see cocaine solution is deposited on each side, this is usually sufficient The trocar is then reinserted and allowed to remain in position until anæsthesia is established This usually lasts about two hours, but if further anæsthesia should be necessary it can be more readily accomplished if the needle is allowed to remain in place

Lynch reports five operations involving the rectum, which were all accomplished with absolute comfort to the patient using not more than 1/6 grain in any instance

The value of this method in hypersensitive individuals in whom it is necessary to explore the unrethra or the bladder can easily be understood Especially will it be found serviceable in old men on whom it is necessary to do a prostatectomy, or with any procedure involving the urethra or bladder

Neil and Crooks Supraclavicular Anæsthetization of Brachial Plexus. Brit M J , 1913 | 338 By Surg , Gynec & Obst

The brachul plexus emerges from under the scalenus anticus and hes in loose tissue which is easily militrated. The area into which the solution is injected is bounded internally by the subclavan artery, externally by the clavicle, and below by the first in The patients its with head turned slightly toward the opposite side that the position of the subclavan artery is defined by the position of the subclavan artery is defined by the position of the production and the subclavan artery is defined in the heatery to the control of the subclavan artery is defined in the subclavan to the strength of the subclavan the position of the subclavan the production of the caternal jugilar ven joins the clavicle, but in some cases, in which the artery hes further out than usual, the puncture must be made caternal to this point lowever, the atterpt site therefund to the position of the production of the position of the production o

of the plexus, and after a little experience it can be used as the sole landmark. A fine needle a to com long should be slowly inserted in a direction back ward, downward, and mward, toward the second or third dorsal spine, so as to strike the upper sur face of the first rib As the plexus hes about I s to 3 cm from the surface just superficial to the first rib, it should be encountered before the first rib is reached If the plexus is not struck before the first rib is reached it generally means that in order to avoid the artery the needle has been inserted too far out The needle must be partially withdrawn and altered in direction, usually towards the artery, until the plexus is struck. When the needle reaches the nerve cords paræsthesia is produced in the arm and hand, when the paræsthesia has been definitely obtained, the syringe is carefully attached to the needle and 20 cc of a 2 percent solution of novocaine with adrenalin is injected. No solution should be injected until paræsthesia is definitely obtained and it is important to remember that when the point of the needle is on the first rib it is too deep for the plexus. Apart from the skin puncture the injection is not painful, the parasthesia in the arm is not severe and any necessary alteration in the position of the needle is not accompanied by pain

The author reports 40 cases There were 4 features In 80 per cent anæsthesia was complete, in 10 per cent it was a failure In 10 per cent, although the anæsthesia was incomplete it was sufficient for the operation

The author states that to obtain satisfactory anæsthesia the following points must be strictly adhered to

adhered to

(1) Definite paræsthesia in the arm or hand must
be obtained before any solution is injected

(2) The injection should consist of 20 cc of a 2 per cent solution of novocaine. If these points are not adhered to, the amesitiesia is likely to be light and patchy. Any solution injected near the plexus before paresthesia is obtained may interfere with obtaining this paresthesia, and so prevent localization of the plexus.

(3) To allow sufficient time for anaesthesia to develop usually 5 to 15 minutes is sufficient, but as long as 30 minutes may be required

This form of nerve blocking is free from danger, but the following objections have been raised against it (a) The risk of injuring the subclavian artery This should be avoided, as the artery can be dis

tunctly felt. It has been proved that puncture of the artery by a fine needle produces no il effects (b) The pleura may be injured and the solution injected into the pleural cavity. This is avoided if the instructions are carried out and the needle

injected into the pieural cavity. This is avoided if the instructions are carried out and the needle inserted until it comes into contact with the first rib, but no deeper.

(c) The possibility of paralysis of the nerve trunks of the arm arising as a result of the injection. There is only one case on record. In this instance

there was parests of the musculo spiral, median, and ulnar nerves which lasted a few weeks The cases following are the first 40 treed by the authors and include all the fallures a amputation through forearm; 4 amputation of fingers, 6 reduce in marcade Colles Institute, 6 setting Institute of forearm; 11 suturing tendons and lacerations of forearm; 11 suturing tendons and lacerations of forearm; 11 reducing dislocation of shoulder, 10 plating radius and ultan, 1 winning observation of bumerus, 1 reducing dislocation of shoulder, 10 plating radius and ultan, 1 winning observation 2 moving stiff elbow, 1 scraping necrosed metacarpal N 5 Herosesso

Molinari. Contribution to the Ftiology of Anæsthesia Parulysis (Beitrag zur Atiologie der Narko senlahmungen) Veroffenti a d Geb d Mar Sunller 1013 B 2

Ber, 1913 11, 24 By Zentralbi i d ges Gynak u Geburtsh s d Grenzgeb

The author collected the following data from the hterature Anæsthesia paralyses are mechanical The relaxed condition of the muscles fails to give a counteraction to the position in which the hmbs are placed Emaciated women are pre disposed to such paralyses The upper extremity is mostly affected. The whole plexus brachialis is usually involved but some cases of individual nerves or nerve groups are on record (Duchenne Erb type - fifth and sixth cervical nerve, klumpke's type -- seventh and eighth cervical or first dorsal nerve) The cause is a compression of the nerve plexus between the clavicle and first rib or a lacera tion or overstretching of the nerve by certain positions of the arm Isolated paralyses usually affect the radial nerve due to the pressure of the operating table on the arm When the fibers of the rams com municantes sympatici running with the eighth cervical and first dorsal nerves are injured pupillary symptoms develop. The prognosis is always good although it may be many months before complete use is restored. Six cases have occurred in the Berlin Frauenklinik - three affecting the upper part of the plexus and three the whole arm that had been used in taking the pulse during the opera

Investigations on the living, as well as on cadavers, show that when the arm is raised to the level of

the shoulder or stretched posteriorly, a strong tension of the plexus is brought about in the region of the head of the humerus, especially if the upper arm is rotated inwardly and the head of the patient is pulled or rotated to the opposite side. In such a position of the arm the radial pulse disappears The plexus is lax when the arm is raised beyond the level of the shoulders, but if the arm is pressed against the head, the plexus is compressed between the clavicle and first rib The upper roots (fifth and sixth cervical nerves) suffer mostly, the seventh cervical less and the eighth and brachial artery are unaffected and the pulse is palpable. In order to avoid paralyses it is advised to keep the arms close to the thorax flexed at the elbow, and the forearms held on the chest by means of the shirt

Zancemeister

Kramer The Rôle of the Lipoids, and Particularly Lecithin, in Narcosis J Exp Med 1913, xvii, 206 By Surg Gynec & Obst

Kramer takes up Reicher's theory that the lipzemia occurring in narcosis is a protective measure against the toxic effect of the narcotic on the body Reicher suggests that the fat molecules act as amboceptors that unite with the molecules of the narcotic and thus neutralize the action of the narcotic On this theory Nerking injected lecithin into animals and then tested their susceptibility to narcotics. He used various anæsthetics (chloroform ether morphine scopolamine etc.), and concluded that lecithin has an undoubted effect on the duration and after effects of the anasthesia mer repeated the experiment, but administered the narcotic intravenously. The same animal was used for both the lecithin and the control experiments an interval of 36 to 72 hours being allowed to elapse between experiments The intravenous injection of 5 to 30 cc of a 5 or 10 per cent emulsion of lecithin did not inhibit the induction of anæsthesia and in six out of nine experiments it had no effect on the rapidity of recovery Kramer concludes that these results do not bear out Reicher's assump-JAMES F CHURCHILL

SURGERY OF THE HEAD AND NECK

HEAD

Hartel Anæsthesia and Injection Treatment of the Gasserian Ganglion and the Branches of the Trigeminus Arch f klim Chir, 1912, c, 192 By Surg, Gynec & Obst

Hattel has devised a new method of reaching the Gasserian ganglion for the purpose of angesthesia or for the curative treatment of trifacial neuralga. He employs a special canula, o 8 mm in thickness, and io cm long with a flat point and a movable marker with which the desired distance is marked out by means of an aseptic rule. The solutions are

injected with a z ccm Record syringe. The needle is inserted into the check at the level of the alveolar margin of the second upper molar tooth. With the aid of the finger in the patients' mouth the canula is directed between the ascending ramas of the jaw and the tuber mainlare, around the buccinator muscle to the infratemporal fossa. The depth to the planum infratem porals is 25° cm. The direct her plant is 10° cm. The control of the plant is 10° cm. The control of the plant is 10° cm. The control of the cont

of the foramen ovale is made by pushing along the hard, smooth surface of the planum infratem perale After the foramen has been reached, the resistance will be gone and there will be radating pains in the territory of the third branch of the tingeninus. To reach the ganglion the canala is inserted 1/5 cm deeper into the foramen ovale till pain is felt in the second branch of the fifth. Inally the syring is attached and i ccm of the solution slowly injected. The anaethesa is immediately tested out.

The pann of the puncture is not severe as a rule The injection is made slowly, drop by drop For purposes of local anesthesia or "Lectungs anesthesia" as Härtel calls it, 4;6 movcanne-uprarenn solution is employed in doses of ½ to 1;½ ccm For therapeutic purposes in trifacial neuralgas ½ ccm of 80 per cent alcohol is injected Anesthesia is usually immediate and lasts on the average 1;½ hours The contre area supplied by the trageminary on one side of the head is thus rendered

completely anæsthetic Hartel reports 16 operations performed under anxisthesia of the Gasserian ganglion Among these were 6 resections of the upper jaw, 2 extir nations of the tongue, I orbital tumor, I extraction of a foreign body from the orbit, a sarcomas of the nose, a plastic masseter operation and a smaller jan operations. In o of these cases bilateral in jections were made Altogether the Gasserian ganglion was punctured 30 times, easily in 28 and with difficulty in 7 In 4 cases the injections were unsuccessful Hartel recommends his method for operations on the anterior part of the skull, orbit, zygoma, upper jaw, nasal and buccal cavities accessary sinuses tongue and pharynx in combination with adrenalin and novocaine injections of the surrounding areas and cocamizing the mucous membrane not supplied by the fifth nerve

Hattel recommends the direct injection of the Gasserian ganglion in the treatment of infacial neuralgia. He reports 14 cases favorably influenced by the injection. For mild cases he recommends novo caniemjections. The alcoholing-etions were reserved for the most severe and desperate cases because of the danger of neuroparalytic corneal ulcerations.

Dasgreeable after effects were observed by Hartel especially after using too large doses. Headache, nausea and vomiting goddiness, etc., were overcome by proper technique and keeping the patient on his back after the injection. Motor phenomena, such as dilatation of the pupil, transitory paress of the n abducens or paresis of the jaw muscles were contend in a number of cases of the part

Hartel also gives careful anatomical data and technical directions for injection of the branches of the trigeminus. In a number of cases he succeeded in pincturing the foramen rounding directly through the lower orbital margin and by injecting small quantities of novocaine superarenin solution produced immediate annesthesis in the terratory of the

second branch of trigeminus This anæsthesia was tested in a number of operations—is recommended where the other routes to the second branch are inaccessible for anatomical or pathological reasons. Endoneural injections are to be preferred to perincurial injections.

Careful directions for injecting the maxillary nerve in the pitery go palatine fosts a arealso given by Härtel He reviews the entire subject of "Leitungs amesthesia" of the trigeminus, as worked out especially by Braunn and Offierhaus Härtel's work is based on careful anatomical studies and accurate technical details, as reference to his original article will show

Ritchie: An Unusual Case of Osteoma of the Superior Maxilla. Laryngotope, 1913, xxiii, 112 By Surg, Gynec & Obst

ERWIN P ZEISLER

The patient a German of gigantic stature, had suffered from complete nasal stenois for 17 years and presented the frog face typical of osteoma of the superior maxilla. The left orbit and its contents was displaced causing diplopia Digital examination revealed a bony mass the size of a her's egg in the naso phary nx, Almost hling it

Muller, ten years before, under a local anxithetic had removed by means of a trephine sufficient amount of the tumor to relieve the stenosis to some extent for a few months. Two years later S L McCurdy removed three ounces of the osteoma by

way of an external incision

Examination before operation revealed a purulent
ethmoditis with a fistula from the nasal cavity
discharging into the inner canthus, which was con-

stantly filled with pus An incision beginning at the inner end of the left eyebrow, extending over the nasal bones through the left naso-labial reflection, terminated at the mucous membrane of the hp. A second curvilinear incision, made from the first at the level of the inner canthus extended to the malar prominence. This allowed the nose to be reflected well over the right cheek, exposing an ivery like mass encreaching in every direction. The septum was practically all destroyed, the messal walls of the antra were obliterated the floor of the nose could not be seen and the ethmoid areas were encroached upon The mass was with difficulty chiseled out in every direction until normal bone was encountered sheet lead being utilized to protect the pharyngeal wall The remaining ethmoidal cells were curetted. The right antrum was half filled by the mass, while The tumor the left one was completely filled seemed to have originated in the left maxilla. The sinus to the inner canthus was obliterated and the wound closed, the mucous membrane first, silk being used externally and removed on the second day leaving little scar formation. The cavity was packed through the nose with tincture benzoin compound gauze Tive months later there was no recurrence, and all distressing pain and insomnia had disappeared H A POITS

Kirmisson: Temporo-Marillary Ankylosis Studied from a Diagnostic Point of View (L'ankylose temporo marillare étudée au point de vue du diag nostic) Bull d I Acad d Med., 1973, Isix, 95 By Journal de Chrurgee

D) Journal de Cilirate

Kirmsson has rescrede the condyle of the maxillary bone in two cases of temporo manilary ankylosis with good results. Before the operation the just could be separated only 4 or 5 mm. Since the operation they have quite normal movement. To obtain the best results we must be sure of our diagnosis. We must first consider whether we have very much more limited in a bilateral, than in a unilateral onlysios. The condyle on the good side unilateral ankylosis. The condyle on the good side unilateral ankylosis. The condyle on the good side of the condyle as a pivot. In this movement the chains carried toward the affected side

Another important point is with reference to the atrophy of the inferior maxilla which accompanies the temporo maxillary ankylosis. This is much more marked when the ankylosis occurs at an early age

In cases of unilateral anh, loss the atrophy corresponds to the affected side. When we examine a
case of unilateral maxillary anh, loss the affected
side appears the more developed while the good side
appears atrophic. This is explained in the follow
appears atrophic. This is explained in the follow
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The second are appeared to the propose of the second and ascending raines of the jaw the prominence appears
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Frazier Procedures Adapted to the Exposure of Structures at the Base of the Skull Lancet Clinic 1913 Cix 154 By Surg , Gynec & Obst

While the technique for exposing the cortical surface of the brain and lesions in the frontal parietal and occipital lobes has been elaborated and refined until the procedure has become comparatively simple and safe, there still remain structures at the base of the brain in the posterior middle and anterior fossa which are much more inaccessible. The author here describes the technique which he has elaborated for approaching certain of these structures of all, in the posterior fossa intracranial division of the auditory nerve is indicated in certain cases of persistent and intractable tinnitus or persistent and intractable vertigo of central origin. Frazier has recently placed on record the first successful operation of this character performed in this coun try His technique consists essentially in a unilateral suboccipital craniectomy, extending from the level of the lateral sinus down to the foramen magnum, and from the emissary sinus to the median line By following the petrous bone, the internal auditory meatus is recognized and the auditory nerve ex posed, great care being taken to avoid traumatizing any of the centers in the medulla or injuring the facial nerve

In the middle fossa, the uncinate region has

become of particular importance on account of the lively interest in the hypophysis To expose the uncinate region, an osteoplastic flap should be reflected with its base on a level with the base of the skull and the zygoma resected in order to allow the flap to be reflected downwards far enough to allow of an unobstructed view on the plane of the base of the skull. To displace the cerebral hemisphere sufficiently to bring the structures into the field of vision and without exerting undue pressure, Frazier is in the habit of doing a temporal decompression on the opposite side at a previous sitting. This is not enough, however. In brain tumor cases there is so often an associated internal hydrocephalus that there is almost invariably an abnormal degree of intracranial tension. For the relief of this condition Frazier has found it advantageous to perform a lumbar puncture, and when the deepseated structures of the uncinate region are concerned he has found it absolutely essential to withdraw some of the cerebro-spinal fluid from the large basal cysternæ Displacement of the brain is a very important phase of the technique, since the brain cannot be compressed but must be displaced Additional space may be acquired to provide for the increase in the cranial contents by withdrawing fluid from the subarachnoid space, but more especially from the lateral ventricles. As the Gasserian ganglion is classed among the basal structures. Frazier alludes briefly to several features which have simplified the operation for trigeminal neuralgia as he has developed it, among which is the shortening of the period of anæsthesia and the diminution in the amount of the anasthetic by injecting the ganglion with alcohol as soon as it is exposed. He makes a query shaped incision beginning in front at the hair line and ending a little above the external auditory meatus the posterior aspect of the ganglion is stripped of its dural cover ing and the sensory root exposed and avulsed. By keeping the incision within the margin of the hair line and by carefully avoiding the upper branch of the facial nerve the cosmetic results are perfect

The hypophysis is probably the most maccessible of any of the basal structures. While there are some cases in which the conformation of the sella turcica makes it necessary to approach the gland from below or transsphenoidally, the author feels that in most instances preference should be given to the intracranial method through the anterior fossa as this route affords a wider avenue of approach and greatly lessens the danger of infection The technique of the transfrontal approach which he has used with remarkable success in four cases, consists essentially in the reflection of an osteoplastic flap, uncovering the right frontal region. the lower margin of which is just above the supraorbital ridge The latter, together with a portion of the orbital roof, is then resected, as suggested by McArthur in his recent contribution to the surgery of the hypophysis, and what remains of the orbital roof rongeured away down to and includ-

ing the margin of the ontic foramen. A transverse incision about two centimeters long is then made in the dura, extending across from one anterior clinoid process to the other and about a centimeter above the base of the skull, and the pituitary body readily exposed Frazier has found the operation quite devoid of serious difficulties, and the avenue of approach afforded by it excellent

Haynes: The Treatment of Meningitis by Drainage of the Cisterna Magna. Arch Ped.at . 1913. By Surg , Gynec & Obst

Havnes believes that the symptoms of meningitis are due to two things first, pressure due to the collection of fluid, and second, toxicity due to the action of the infecting organisms. The former of these is of importance early, because by the increase of pressure there is produced a decrease in the blood supply due to pressure on the blood-yessels, which in turn renders the meninges less able to combat the action of the bacteria. In the early diagnosis of meningitis he lays great stress upon the disappearance of sugar from the cerebrospinal fluid and states that if the sugar has disappeared it is not necessary that the bacteria be found in order to reach a diag nosis of meningitis From a practical standpoint he does not believe that it is of a great deal of importance in the early stages to differentiate between the different organisms causing menin

In only one form of meningitis, the meningococcic form, is there any hope for recovery offered, and

this variety can be early diagnosed For the surgical treatment of meningitis the first fundamental principle is that it must be applied early The second fundamental principle is that surrical treatment can be of advantage only when the cerebrospinal fluid drains freely and continuously. For this purpose he has chosen the region of the cisterna magna for operation The incision is made in the midline, from the occipital protuberance to the spinus process of the axis, an opening is made in the skull with a trephine the periosteum gently lifted up, and with a Devilbiss bone cutter a small channel is cut out down to the foramen magnum The dura mater and arachnoid are then opened slightly and the fluid allowed to escape slowly, the opening is then made broader and a rubber wick inserted Should the lobes of the cerebellum be glued together with exudate they can be gently separated The soft parts are allowed to fall together and are sutured by two to four deep catgut sutures The skin is closed with silkworm gut. Plain sterile dressings are applied The operation requires from 15 to 20 minutes in children

Havnes has operated upon six cases of this sort, and in none of these was there any ten dency to cerebral herma All the patients died but he believes that this was due to the fact that treatment was undertaken too late

There are numerous varities of cerebellar cysts The more recent works dealing with this subject mention parasitic cysts (echinococcus, cysticercus).

dermoid cysts, serous cysts due to transformation of a sanguinous effusion or of an area of softening or of a tumor (glioma), and serous cysts of unknown The authors believe that to this list should be added traumatic cysts and cholesteanic cysts They explain the origin of traumatic cysts, not by transformation of a hamatoma, but by an inflammatory process which leads to the formation of adhesions between the meninges, thus walling off a closed cavity which becomes cystic. If such cavities are formed in the prolongation of the piamater which enter the cerebellum, a cerebellar cyst will be the result Traumatism, of course, is not the only factor in the production of such inflammators serous cysts Syphilis, tuberculosis, otitis media, etc may likewise be the cause

Abalos and Fracasi: A Case of Serous Cyst of the

Rev med d Rosaria, 1912, Nos 5 and 6 187

Cerebellum with Operative Cure (In cas de

kyste séreux du cervelet guén par l'intervention)

By Journal de Chieurgie

By cholestearic cyst, the authors mean similar inflammatory cysts in which the presence of cholestearine is explained by a precedent destruction of brain tissue, or by some unknown defensive action of the nerve tissue in the presence of bacterial

infection

The authors then take up the anatomical and pathological characteristics of the serous cysts of the cerebellum Cysts which result from the dissolution of a glioma show ill defined walls which are often very vascular Histologically, layers of neuroglia, often quite dense, are found mixed with embryome vascular channels The tumor is often all differentiated from the surrounding tissues, a fact which renders complete extirpation difficult In cysts which have arisen from a hæmatoma or have followed a traumatism, the wall is formed by more or less dense fibrous tissue. The gray matter about a cyst often shows small punctiform hamorthages or areas of encephalitis The liquid cystic contents are lemon colored and contain little albumen Occasionally the crystals derived from hamoelohins are found. There are no sufficiently characteristic findings, however, to allow of a diagnosis of the variety of cysts

The authors report the case, which was the occasion of this memoir A man of 20 years, with a neg ative past history, began in August, 1012, to suffer with headache and to exhibit difficulties in walking The headaches which at first were of moderate intensity, soon became very violent. Vertigo and loss of consciousness appeared as accompanying phenomena The headaches were intermittent They were always localized in both temporal regions Ringing in the ears, troubles in vision, nausca and comiting developed in the order given. The patient was examined in September, 1912, and in the occupital region a small scar was found which

C G GRULEE.

was the result of a blow from an iron bar The pupils were normal and reacted well, there was no diminution of the visual field, no paralysis of the ocular muscles, no nystagmus Auditory acuity was normal No cramal nerve paralysis was found in the examination. No bladder symptoms. The reflexes were normal The gait was swaying and drunken Romberg's sign was positive bellar asynergy was present as was also diadococy nesis Lumbar puncture yielded an apparently normal cerebro spinal fluid under high tension became more pronounced The patient became so No rehef was experienced, indeed, the headaches porous He slept no longer Visual acuity was strabismus and nystagmus The headaches were now in the occupital region. On the right side there was ordema of the papilla There was stasis on the left, with retinal hamorrhages and very marked neuro retinitis. The patient was operated on the 13th of October The ocular signs led to a choice of the left side Chloroform anæsthesia Cushing's skin incision was used. The two cerebellar fossæ were opened Cerebellar puncture on the left vielded a clear fluid, and after the opening of the dura mater a cyst was evacuated The dura mater was then closed except for a small opening left opposite the cyst cavity The patient left the hospital on the 15th day cured Headaches had disappeared vision much improved, the gait normal SALVE MERCADÉ

Weed, Cushing and Jacobson Further Studies on the Rôle of the Hypophysis in the Metabolism of Carbohydrates, the Automatic Control of the Pitutary Gland. Bull Johns Hopk Hosp, 1913, XXIV, 40 By Surg, Cyncc & Obst

These studies were for the meas part made during the past two years in the Hunterian Lubrary of the Johns Hopkins. University They exhaust ear and are best summarred in the authors' own words "that from the results of the experiments which have been cited in this paper it is fair to assume the existence of a nervous control on the part of the sympathetic system over one form at least of the secretory activatives of the putuary body." The particular function of the gland, and presumably of its posterior lobe, on which their studies have been based concerns the elaboration and discharge of a substance capable of evoling glycogenolysis.

Provided there is a storage of glycogen available for discharge, the authors conclude that 1 A pigure of the hypophysis in the rabbit is

A piquite of the hypophysis in the rabbit is comparable, in its glycosuric response, to a piqure of Bernard's so-called sugar center in the fourth ventricle

2 Stimulation of the superior cervical gaughon by faradization or even by the manipulations accessary for its exposure, causes glycosuma in the rabbit, cat and dog 3 Stimulation of the superior cervical ganglion, after exclusion of all possible downward impulses to the abdominal viscera by way of the vag, cervical sympathetic trunks, or spinal cord, leads to glyco-

4 Stimulation of the superior cervical ganglion, after separation of all synapses of the sympathetic system by administration of nicotin causes glycosuria

5 Direct furadic stimulation of the hypophysis

itself after exposure by a transphenoidal operation, gives gly cosuria even after preliminary transection of the spind cord and cerusal sympathetic trunks 6. If the posterior lobe of the hypothysis has

6 If the posterior lobe of the hypophysis has previously been removed by operation the usual stimulation of the superior cervical ganglion fails to give giveosuma.

7 Direct faradic stimulation of the hypophysis provokes glycosuria even after transection of the spinal cord above the splanchnics

8 A Bernard piqure will likewise cause glyco suria even after transection of the spinal cord

above the splanchmes
The pituitary body, and more particularly its
posterior lobe, plays a significant role in the metabolism of carbohydrates, and its action in this respect is under the control of fibers which reach the
gardjon Simulation of these which reach the
spect is under the control of these which reach the
gardjon Simulation of this nervous pathway
at the so-called sugar center in the fourth ventricle,
at the superior cervical ganglion and by excitation
of the pituitary body itself liberates a chemical
substance which causes glo openolysis and glycosund, independent of any possible nervous
unselfs or abdominal viscers. George C. Bersus

NECK

Grube. The Effect of Thyroid Extract on the Blood Pressure and Isolated Heart (Zur Frage der Virkung des Fytraktes aus kropten auf den Blutdruck und das solierte Herz). Russk Fratek, 1913, xu 9

By Zentralbl f d ges Chir u i Grenzgeb

The author experimented on dogs, into the veins of the neck of which he injected the extract of the healthy thyroid and toxic extracts of exophthalmic gotters, in doses of o 5 of extract for each kg The experiments on the isolated hearts were done with the apparatus of Borscharow in solutions of the extract of 1 to 500 He came to the following conclusions The extract of the toxic thyroid produces a lowering of blood pressure in most cases. It produces an increase in the height of the peripheral pulse and also the rate of the pulse The reduction of the blood pressure is dependent in a large measure upon the diminution of the tonus of the vessels and dilatation of the peripheral vessels On the isolated heart the extract of toxic thyroids increases the pulse rate in most cases and increases the height of the pulse wave The degree of the effect of the extract of



thyroid on the blood pressure can be brought into relationship clinically with the attacks of intoxica Observations on the effect of extracts of healthy thyroid on the blood pressure of animals into the abdominal cavity of which a thyroid enucleated from a diseased animal was introduced give rise to the opinion of an increased sensibility to The condition resulting reminds theroid toxins one of the appearances of anaphylaxis This probably explains the effect of even small doses of thyroid extracts on patients suffering with toxic goiter

Mayo Golter, Illinois M J 1911 xxiii 125 By Surg Corner & Obst

Formerly supposed to develop from three anlages the thy rold is now known to be wholly formed from the median one, originating between the three divisions of the tongue from which place it descends in the neck to its resting place astride the anterior upper trachea Anomalies are caused by failure of the gland to develop by its continuing its fatal form as a permanent structure by failure to leave its origin il location (as lingual thyroid) by portions breaking off in the descent (attached or completely separated) thus causing accessors or aberrant thyroid or the rather common occurrence of becoming entangled in the developing hyaid bone stringing out a portion of the gland known as the pyramidal Sometimes though rarely pharyngeal em bryonic mucosa is drawn down in the line of descent causing the thyroglossal duct cyst While the thyroid is subject to frequent diseases

which increase its size only a small percentage of such enlargements are malignant Most of them are simple goiters and conform to the normal outline of the gland. Others however appear as single large adenomata or as multiple small adenomata

The goster of adolescence is a functional ædema It often disappears without treatment and seldom requires operation Indine is very effective in these

cases Simple goiter and adenoma through de-

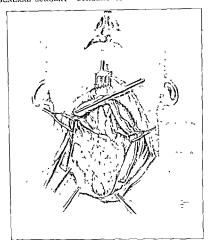


Fig. 2 (Mayo) Incision into true capsule

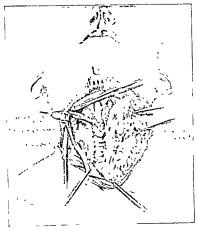
generation coming from natural causes or induced by stimulation of iodine in long standing goiters may produce the symptoms of toxemin with attendant effects on the heart kidneys and liver These cases may have all the nervous symptoms and heart complications of a bad case of Basedon s disease with staring, but not protruding eyes. Operations on them are fully as serious as in the ordinary case of Graves' disease There is no question but that Graves' disease is a chronic malady and only occasionally runs an acute course to termination According to Plummer's observations there is a period of descent during the first few months before the heart dilates After this occurs the patient continues in a more serious condition to the end of the first year During the second year the case becomes a chronic one subject to fluctuations While the large majority of cases can be easily diagnosticated from the nervous type 1 e tachycardia, goiter, eye symptoms and blood changes there are a few cases in which it is difficult to determine true hyper

thyroidsm from neurasthenia myocarditis, or other diseases as well as a few cases in which there may be complication by affection of the hypophysis, thymus or adrenals. These patients are not cured by operation on the thyroid

The mortality following operation for simple gotter is but a fraction of 1 per cent, while that following exophithalmic gotter varies from 1 to 2 per cent. Relapses occasionally follow the removal of adeomata. They also occur in some cases got orrives disease due to insufficient removal of almost on increase in what was left, which may not show or cruse symptoms for some years after the primary extirpation. The indications are to remove more of the gland.

Duling Golter Iowa II J 1913 xxx, 375 By Surg , Gynec & Obst

The thy roid gland belongs to the type known as the ductless glands By a different classification it belongs to the protective glands the others being



Lig. (Mayo). Ligation of vessels and rem vid. I gland

digestive or eliminative. In association with the partity roud, the hybroid pland is an important factor in suffering and the sum of

"That the thyroid is a sex gland is indicated by the fact that in some invertebrates it empties by a the rate the uterus" (Chas H. Mayo)

duct into the uterus." (Chis II Mayo)
An excess of secretion of the thyroid gland produces a profound influence on the muscular and
nervous systems and later on the internal organs

Including the heart, liver and kidneys

It influences the growth of bone and infection by
increasing its functional activity, may cause increase
in the length of bones

Unusual height for age

usually accompanies hyperthy roids m Hyperthyroids m is due to an increased functional activity and not to perserted function. Kocher treated persons suffering from deheient thyroid function by transplanting scraps of Basedow thy road with the same results that followed the use of normal thyroids

Mit arrived not exclud in producing gotter in faction of ractor goats by the uses of dranking with control and the factor of sufferers from gotter of the control and the collapse in the broad occurred. This indicates that gotter is probably the result of indication with mixtural capable of easing in ordinary dranking water, that the infection leaves the body with the faces contaminates water supplies and that the infective sgent is killed by boding the water.

Other alliged cause of gotter are caffeine, persecut throus interference with blood current, heredity therepeute use of sodine, nervous breakdown and pulmonity tuberculosis. Of the female patients for per cent, and 37 per cent of the male patients in the sixte santonium for the treatment of tuberculosis have enlarged thyroids. General mus



Lig 4 (Mayo) Operation completed

cular neakness sweating fatigue rapid pulse anamia and loss of neight are common to both diseases when well established This percentage is too great to be incidental

Therapeutic measures include the milk of thy modeles goats, Bebee s surum McCarrsson's com pound vaccine," thy roid extract nodine N ray, removal of the thymus gland and symptomatic treatment. The latter which includes complete ret in bed without any possibility of being excited milk of the latter which includes complete ret in bed without any possibility of being excited makes the latter of any during that seem undicated often makes and patients by drobro makes act favorish?

If improvement is not permanent surgical treatment should be considered. This gives the best results if the pulse rate is less than 125. The mortality in surgical cases is less than 4 per cent. Crile's

excellent work on the surgery of the thyroid shows the great value of extreme caution to avoid even slight traums and psychic stimuli

If symptoms recur following a period of improve ment after an operation the indications are that not enough of the gland was removed and the removal of more of the gland should not be delayed

McKisack Atypical Exophthalmic Goiter Brit M J 1913 : 208 By Surg , Gynec & Obst

The author says that while the diagnosis of well established cases of Graves' disease is an easy task, there are many atypical cases not so easy of diagnosis. He furnishes a table of 23 cases and touches on their types. In his treatment he advocates the Xray. He also suggests that the name byperthyroidism be used rather than exophthalmic.

gotter The author says the cases are too few to permit any reliable generalizations to be based on them, but it will be observed that the heart rate in all was above normal and in practically all the patient was aware of the rapid beating either in the form of general throbbing of the arteries or as palpitation of the heart. This is the symptom which should always arouse suspicion, and when combined with tremor and even a slight protrusion of the eyeballs, it may be accepted as an evidence of hyperthyroidism This list named sign however was absent in 13 of the 21 cases Careful examina tion will generally reveal an increase in the size of the thyroid, sometimes only to a very slight degree In a cases it was normal in 5 it was of moderate size, in a considerable enlargement existed and in it there was slight enlargement In mor was absent in o of the cases. Twelve of the cases were between the ages of puberty and so and the re mainder were between 30 and 60 Ill but 5 were females and one of the three men while incomplete in the developmental signs when hest seen soon progressed rapidly in an unfavorable course and became a typical case in a very short time of the cases as already mentioned showed trea-M S HENDERSON motor excitability

Citrustatew Pathological Anatomical Changes of Internal Organs in Basedow's Disease IIIologischanatomische Veranderung in misen inneren Organen bei Morbus Basedous, Rusuk Fratch 1013 zu 0 By Jentralbi I d geschut u i Geringeb

The author publishes the results of meroscope examination of different organs of seven patients who died with Basedow's disease. The thyroid showed changes typical of this condition. Testes showed little change. In the uterus and expectifle he larticel galants there were attrophic changes of the specific elements and a proliferation of connective issue. Microscopically the thimms is enlarged. There was either a pecusistent thimms of chaldhood or a secondary hyperplastic regineration of the thymus or finally one in which the greater part of the tissue was composed of fat. If perplasis of the entire I jumphitue system the spicen and I jumph glands was present. The widernis showed a

hyperamia and a lack of development of the medulla. The hypophisis cerebit showed hyperplasa of a chromophilic type mostly cosinophiles. The heart, liver and kidneys showed traces of marked parenchymatous changes. The follicles of the intestinal tracts not enflamed.

Buschan Thyroid Therapy (Schild Irusenbehandlung)
Real I neyelop d per Heilt, 1913-174
By Tentralbi I d ges Gynäk u Geburtsh s d Grenzgeb

The author tabulates all those diseases that are beneatised by thy and therripy. Thy road treatment is unquestionably indicated in all diseases where the gland function test too little or not at all, as in myz cedems and tachexia strumptiva. A relative in sufficiency of thyroid secretion may cuse insignificant symptoms during mensituation pregnancy, and characterium.

I rom the list of diseases in which thyroid therapy has been successfully used the following are of gynecological interest hamophilia, uterine hamor rhage chronic constipution, uterine fibroids, comiting of pregnance and deficient factation. Theroid trestment has been made use of in hemophilia because it was thought that the calcium assimila tion could thus be increased. Only a few cases of successful treatment are known Uterine hæmor thage and menorthagia during the menopause are influenced favorably when other symptoms of hypothyroidism are present. In 61 cases of chronic constipation with symptoms of hypothy roidsm the author used thyroid preparations on account of the relation of the thyroid to the neuro muscular ele ments of the intestinal tract. The results were gratifying Of 12 cases of uterine fibroids the tumor decreased in size in 12 instances and disappeared en tirely in one patient. In another, the menses ceased

The author uses of 10 o 1 tablets of the drud gland. He begins with o 12 and increases after he has determined how the included reacts. The use of some good preparation of attent actuals and harmful at itom the hybrid preparation may possess, the property of the property of the property (lichal should not be used in any form. Hyperthroad-sm produced his thirted medication, is a strouge completition in patients with heatt decase

GRAELPYER

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Powers Tuberculosis of the Breast. Asm Surg. Philip, 1913, bin, 177 By Surg Gynec & Obst. The author reports two additional cases, bringing his total to four. His first case reported in 1804.

died shortly after from pulmonary tuberculosis. The second, reported in 1507 is alive and well CAST I A woman 23 years old with a slowly growing, doughy mass in the lower outer quadrant

of the left breast had a trituly which discharged thin pus. The brases and audiary glands were removed together with the fascin overlying the large pectural muscle. Smooth healing occurred Pathological examination showed both breast and glyinds tuberculous. Patient was seen three years after operation and was then well. CASE 2. This was a gril is years old, with a

diffuse irregular dought mass in the outer upper hemisphere of the right breast. The lump had grown slowly and patient had gradually lost weight and strength The entire axilla was occupied by large hard masses Three discharging fistulæ were present The lungs were free Operated March, 1012 The upper outer half of the breast was removed, together with the fascia from the pectoralis major muscle On cut section it seemed as though the incision was through a healthy part of the gland. For cosmetic reasons the inner part of the breast and the nipple were left. The pectoralis muscle was divided and the subclavian region and axilla were cleared of glands These were adherent to the vern The wound was closed with drainage and healed promptly Pathological report Tubercular lesions found in skin covering breast in under lying tissue, and in superficial portions of the glandular structure, but did not extend deeply Where the gland was involved the lesions apparently occupied the seat of a former group of gland acini which had been destroyed by the tuberculous proc ess The fibrous tissue was normal The axillary glands were frankly tubercular

Small doses of tuberculin were administered for several months following the operation. She gained 17 pounds in weight in six months. At that time there were no evidences of tuberculosis anywhere. The author advises that the entire gland be removed as rule but in this instance the risk was run be cause of the age of the patient. He thinks the auillary glands were the seat of the infection and

the involvement of the breasts was secondary The author reviews the recent literature on the subject, and gives a very good description of the various pathological conditions met with in this disease. He states that on palpation in the living subject the breast presents one or several more or less voluminous superficial subcutaneous or deep hard nodules at the level of which the skin is thickened and congested when the lesion is directly under neath it. These nodules are located in the gland or at its periphery sometimes quite a distance from the nipple In long standing lesions an orifice may have formed spontaneously or after incisions this gran ulating fistulous opening leads to a deep, purulent focus lined with fleshy granulations. A surface section shows grayish rounded nodules composed of inflammatory tissue semi transparent from the size of a hempseed to that of a small pea dissem mated in a portion of the gland and cascous in their centers These nodules are either isolated more or less distant from each other or confluent caseous, yellowish center being lifeless has a ten dency toward disintegration, infiltration with serum or pus, and transformation into small cavities These cavities may coalesce One or more acini may take on the caseous, dry appearance extra acinous milk ducts of all sizes are involved at the same time, their peripheral connective tissue is the seat of leucocy tes, the epithelial cells become larger than normal and frequently present several nucles. This increase in epithelium and leucocytes fills and distends the cavity which in turn becomes

caseous Tuberculous granulations project at the internal surface of the milk ducts, the membrana propria of which is finally destroyed. These granulations possess variable numbers of grant cells, surrounded by inflammatory tissue containing mononuclear leucocytes The secretion formed changes the milk ducts into actual cavities with tuberculous walls It is comparable to the course in peribropehial tuberculosis Bacilli may be found The axillary glands are often tuberculous, they are either primarily or secondarily infected. In mammary tuberculosis with a chronic course, the tuberculous granulations are isolated and disseminated rather than confluent, but nevertheless perfectly characterized by their giant cells as well as by the epithelioid cells and peripheral lymphatics connective tissue is the primary seat of the infection

From the anatomical as well as the clinical point of view mainings, tuberculosis appears under two principal forms—the disseminated and the continent. The latter is by far the most common Between these two extremes vanous intermediate forms may come under observation. While the diagnosis is not especially difficult in certain cases it may become practically impossible in others. The condition may be confused with any solid or liquid tumor of the breast. The progross of life is variable but the gland itself is generally doomed. In regard to the treatment the following pro-

cedures may be used

(a) Curetting the sinuses (c) cauterization of the sinuses and castics, sinuses (s) injection of the sinuse and castics, (4) incision or aspiration of abscesses (s) removal of tumor alone, (6) removal of a zullar, glands alone, (7) removal of the tumor and a portion of the breast, (8) removal of the breast and multiple (Schley). The author recommends the latter operation including the pectoral fasca as the axillary glands are almost always tuberculous. In exceptional cases (advanced pulmonary tuberculosis) one of the other operations may be resorted to.

LDWARD L CORNELL

Halsted Developments in the Skin-grafting Operation for Cancer of the Breast. J. Am If its 1913 b, 416 By Surg, Gynec & Obst

Halsted describes the modifications of his operation for cancer of the breast which he has made during the past quarter of a century. The changes relate chiefly to the securing of perfect motion and to the prevention of swelling of the arm He is convinced that the incision down the arm

he southwest that the incision down the arm should be abolished because (i) it endangers the irrulation of the arillary and subclassiciar diagrams and hence not infrequently causes an edge necross and this infection of the subclassical redard space in which the the large blood veryels, (2) there is always more or less shortening of the scar which results from the longitudinal incision down the arm and, in the majority of cases, on abducting the arm bely ond 50 degrees a point nould ultimately be long of degrees a point nould ultimately.

reached, as the elbow approached the head, at which a band of skin and cicatricial tissue would tug between the chest wall and shoulder This tugging band quite invariably was found to be in the line of the contracted longitudinal arm scar

In making the toilette of the wound, the skin above and to the outer side of the axilla is utilized chiefly for the perfect obliteration of the subclavicu lar dead space, the skin margin being stitched to the first intercostal muscle at the highest point of the new axilla and then at other points to the intercostal muscles along the entire circumference of the wound tension on the skin employed for the obliteration of the subclavicular dead space and for the covering of the vessels being assiduously avoided. The raw surface on the chest wall is covered with large Thiersch grafts, and the grafted area should extend to the extreme apex of the axilla. During the process of stitching and grafting the arm should be abducted to at least 90 degrees and at times the abducted elbow should be given wide excursions in order to satisfy the operator that the freest movement of the arm in all directions is guaranteed

Halsted advocates skin grafting rather than plastic operations for the covering of the defect, and

for the following reasons

1. An almost unlimited amount of skin may be removed - in some cases more, in some less than formerly removed. "Whatever a surgeon's views may be, in general, as to the amount of skin which should be removed, he is certain at times to be con fronted with cases which clearly demand excision over a very wide area. Whether the grafted area is large or small the time required for the healing of the wound and the range of motion permitted to the arm are the same

2 "Shin grafts present a definite obstacle to the dissemination of carcinomatous metastases " When the tendency to dissemination in the skin is very great, the author has occasionally made what he terms a moat to prevent further spread of the car

cinoma in the skin

3 Recurrences in the deeper planes may be promptly recognized under the thin grafted skin

"The inner or thoracic wall of the axilla being lined to the extreme apex with grafts, the skin of the outer flap may be utilized, in redundant fashion for covering the axillary vessels, for obliterating the subclavicular dead space and for elevating the anillary fornix "

The extreme swelling of the arm, which so fre quently has been observed by all surgeons, has not occurred in any of the cases operated upon by the

author's modified method

Hamman and Sloan. Induced Pneumothorax in the Treatment of Pulmonary Disease Bull Johns Hopk Hosp , 1913 xxiv, 53 By Surg , Gynec & Obst

The authors assert that the application of induced pneumothorax should not be restricted to any particular disease or type of case It has been made use of chiefly in pulmonary tuberculosis, but numerous instances are recorded where patients with bronchiectasis and chronic non tuberculous infections of the lungs have been similarly treated. The authors' experience has been gathered from unfavorable and desperate cases of pulmonary tuberculosis Many of the patients they operated upon at first were not selected in any medical sense. They were accepted because, conscious of their progressing disease, they were willing to risk a new method of treatment, while more suitable patients withheld their consent Recently they have induced pneumothorax under more favorable conditions, and they express the hope that in the future the opportunity may present itself to test its value in earlier stages of the disease They outline in this article various methods of inducing pneumotherax, including Bauers, Murphy's and Forlamna's, and also the method devised by themselves, which is in reality a modification of Bauer's The apparatus which they use is also described in detail. The method consists briefly in introducing into the pleural sac

through a needle, air or nitrogen gas Since all the cases reported by the authors were suffering from moderately or far advanced pul monary tuberculosis, it clearly would be futile to gauge the value of pneumothorax treatment by classifying them according to the stage of the disease A just estimate of the value of the treatment, it seems can only be gained by a study of the indi vidual cases However, some general grouping is desirable, therefore the authors divide the cases according to the success attending their efforts to produce collapse of the diseased lung. They arrange

them in four groups

I In 3 cases induction of pneumothorax was followed by death or a serious complication

2 In 3 cases it was impossible to produce pneu mothorax 3 In 7 cases only a partial pneumothorax was

4 In 7 cases a complete pneumothorax was

produced

In all of the cases in Group 4 the induction of pneumotherax was followed by diminution of cough and expectoration Six of the 7 cases had suffered from hæmoptysis of varying grade, which did not recur after the pneumothorax was complete. All of the patients showed marked improvement in their general condition except one This case lost considerable weight but was otherwise well From an exhaustive study of the literature and the observa tions of the work of the authors upon this important subject, they seem justified in drawing the following conclusions

Induced pneumothorax is a harmless procedure and the operation, carefully performed, is without

2 In 3 out of 20 cases it was impossible to produce any pulmonary collapse oning to general pleural adhesions

3 The pneumothorax has, in most instances, an immediate and striking influence upon the cough and expectoration. Tubercle bacilli may disappear from the soutum.

4 Constitutional symptoms abute more slowly In most instances there is at first a loss in weight

followed by a gradual rise

the total collapse of one lung causes surprisingly the inconvenience Usually there is but slight dyspinca on exertion. Many of the patients with an induced pneumothorax assist actively in the work about the sanatorium.

6 The procedure is of great value in the treatment

of pulmonary hamorrhage

7 While induced pneumothorax will never become a routine method for the treatment of pul monary tuberculosis still in selected cases it offers a prospect of temporary and permanent relief when the usual methods of treatment have been unsuccessfully tried Quiescent lesions in one lung, with acute recrudescence in the other are the most favorable for the treatment. Its use need by no means be limited to strictly undateral lesions, but when there is advanced disease of both lungs little benefit can be expected. It would seem advisable not to withhold the treatment until the patient is hopelessly advanced but to apply it judiciously to suitable moderately advanced patients in whom the disease tends to progress in spite of appropriate treatment GEORGE E BEILBY

Bernstein A Clinical and Pathological Report of a Case of Primary Malignant Disease of the Pleura Albany W Ann 1913, xxxv 88 By Surg Gynec & Obst

I female, aged 60, presented a history of dyspnæa on exertion and neuralgic pains radiating from the left side of the chest Physical examination revealed the presence of fluid within the left pleural cavity Thoracentesis was performed In fact within a period of one month 157 ounces were withdrawn at repeated tappings There had been meanwhile no elevation of temperature or pulse Patient did not raise sputum. Guinea pig inoculations with the fluid were negative Smear preparations from the sediment showed the presence of lymphocytes eosinophiles and many clusters of large nucleated cells, the latter were ten to twelve times larger in diameter than the small lymphocytes No mitoses were seen The patient died 31/2 months after the onset of the symptoms. At autopsy there were present about two litres of turbid, straw colored fluid within the left pleural cavity. The parietal pleura was everywhere thickened averaging o com on section It was of a tough leathery consistence and grayish in color, presenting a trabeculated appearance Scattered about were discrete nodular thickenings varying from o 5 to 1 cm in diameter A few of these presented a cauliflower like growth The left lung was collapsed and lay close to the spinal column A nodule of tumor growth at the level of the second rib, anteriorly, extended to the

visceral layer into the lung substance The area of extension measured 2x1 5 cm

Microscopucally, the sections of the pleura showed an abundant connective trisue atroma and tumor cells. These were confined to the lymph vessels and lymph spaces. There was marked variation in the size and shape of the tumor cells. In the small lymph spaces they were clongated and lay end to end. In the large step were clongated and lay end to end in the large section, and the large step to the control of the large section. No evudence of metastases was found other than the extension of the tumor to the lung by contiguity of surface. The term "endetheloma" was used on the ground that the lamph channels were primarily the seat of tumor growth. This resulted in the disturbance of the lymph circulation of the pleural through the control of the lymph circulation of the pleural character and abundance of the oliveral fluid tings.

Schumacher Thymic Stenosis and Its Pathology (Über Thymusstenose und den Heutigen Stand ihrer Pathologie) Dissertation 1913, Berlin By Zentralbl f d ges Chir u i Grenzgeb

The author cites the case of a male child to months. old who since birth had difficulty in breathing tumor like swelling was noticed in the anterior part of the nick just above the sternum also increased duliness in the region of the sternum and A ray examination showed a large definite The author removed two shadon in this region lobes of the thymus The lower pole of the gland was left and was fastened into the cervical fascia A microscopical examination demonstrated a hyperplasia of lymphoid tissue The symptoms gradually disappeared, no recurrences ever occurring but it took fully four years for the nationt to be entirely cured Schumacher states that the status lymphaticus was the cause of the patient's symptoms disappearing so slowly There is also a possibility that the enlargement of the lymph glands of the trachea and bronchi may have been partially responsible for the origin and increased dyspacea on inspiration

Parker Surgery of the Thymus Gland, Thymectomy Am J Dis Child, 1913, v, 89
By Surg Gynec & Obst

The author as the result of his investigations, arrives at the following conclusions concerning the thymus gland Many sudden deaths in infants have been caused by an enlarged thymus producing obstruction of the trachea 1 requently this is the side factor responsible for the compression but at times enlarged tracheo bronchial glands or spasm of the glotts is a contributing factor in producing the following the contribution of the traches is shown at an autopay by the present of the traches is shown as an extended and the state of the traches and the same associated with the enlarged thrown, and is reveiled intra vitam by the bronchoscope showing the natrow of lumen of the organ the symptoms referable to which being completely reheved by thymectomy. The dimunished caliber has also been demonstrated to the contraction.

strated by intubation, only a long tube sufficing to keep the traches open and immediate and permanent relief following removal of the gland Two general types of cases are observed the continuous type, in which the symptoms usually date from bitth or soon after with permanent

dyspiners usually present and the intermittent type usually of later development in which there are longer or shorter intervals free from symptoms The three most important symptoms in either type are permanent dyspanta recurring suffocative

attacks, and stridor All three of these frequently occur together, when their presence is an imperative indication for operation Strider alone is not an

indication for the meetomy

The treatment is essentially surgical Operative ths mectams is as necessary and effective in tracherl obstruction from the thymus enlargement as tracheotomy or intubation are for obstruction higher up. It is frequently an emer

gency operation Although the accumulating evidence is strongly suggestive that the thirmus gland is absolutely necessary to life and normal development in the earlier stages of growth its operative removal in the young human subject as far as present exidence has shown as not fraught with the slighest untoward metabolic disturbances. This is probably due to the fact that it is never completely removed and that the remaining portion quickly reproduces the tissues of the organ. It may also be in man as in the lower animals that after a certain period of growth its function is taken up by other organs as the thyroid and splein and its complete removal if it were possible would have no balcful influence on the organism

Of the 17 recorded deaths that occurred in thy meetomized children 4 followed a complicating trachestomy and one an unclosed wound with drain age and infection I our were due to infection from septic tracheo bronchial glands. In one there was a preliminary bronchoscopy and in another there had been several unsuccessful attempts at tubage immediately preceding the operation In three cases with incomplete histories the operator express ly stated that the deaths were not due to the opera tion itself One was in a severe case of Little s disease And finally in two cases the deaths or curred several weeks after operation from causes re mote from if not entirely separate from the opera tive procedure. In no case was the operation im mediately fatal

Intracrpsular thymectomy is the only type of operation now employed. The vertical median incision terminating about 1 cm below the upper border of the sternum is the skin incision usually This is the one used in Veau's operation employed The low transverse incision has been successfully employed in a few cases

General an esthesia is usually well borne when competently given. The operation is easily and C G GRUTEE safely performed

Crottl. Thymus Tracheostenosis and Thymus Death; with Report of Cases. J Am M 411. 1913, lx, 571 By Surg. Gynec & Obst Crotti adds two cases to the five he has previously

reported He reviews the literature on persistent thy mus and its relation to exophthalmic conter CASE 1 Advanced exophthalmic goiter in a wom-

an aged 41 with classical symptoms. Sudden death from shock and collapse occurred during operation under local anasthesia lasting 20 minutes Ligation of poles had been attempted. Autopsy revealed nothing but an enlarged thy mus and goiter to explain sudden death

CASE 2 Baby apparently normal, after forceps delivery Shortly after had severe spell of dyspnora, which passed away under ordinary measures. About eight hours later sudden death occurred in a second attack Autopsy revealed greatly enlarged thymus filling the entite upper part of the mediastinum and pressing the heart north and vent cava downward The trachea was markedly compressed. A patent foramen ovale was present but could not have been of etiologic importance because of the absence of symptoms at birth and between attacks

Physiology The physiological action of the thymus is unknown but according to klose the gland is e-sential to life -ome authorities claim the gland has a complementary others an antagonistic Transplantation of the action to the thiroid normal gland causes no symptoms. Transplanta tion of hyperplastic thymus caused toxic symptoms especially of the circulators and nervous mechan-

Pathology In this condition the thymus is usually very large and fills the space between the thyroid and heart. Typically the trachea is compressed at two places first at a point between the manubrium sterni and the first and second verte bræ and second especially in adults at a point between the brachiocephalic trunk and the left common caroted. The traches is compressed over more than one ring and may be displaced to the right The large vessels are displaced especially the aorta. brachiocephalic arters and the sena casa heart is displaced downward, and there is pressure on the inferior larvingial nerve and the cardiac ganglis at the hase of the heart

Issociated pathology The condition has been found associated with simple and exophthalmic goster myxindima titany airomegaly and en

largement of endocranes glands

Symptoms These vary greatly in the different cases Onset is usually in the first weeks or months of life and is not so common during and after the second year. It may be without cause or may follow a crying spell Dysping i is the most striking symptom It varies from labored respiration to a severe choking spell and may be constant or inter mittent with or without icute paroxysms. Between the attacks respiration may be normal. Studor may be constant and extreme It is usually inspiratory, but in severe cases is also expiratory. Depression of

infra- and suprasternal notches on inspiration is seen Hyperextension of head or dorsal decubitus exaggerates the dyspnæa Voice remains unaltered during and between the paroxysms Veins of the neck are distended, and the face is puffed up Child is semicomatose, heart beats violently, and fontanelle protrudes All symptoms improve or disappear as parovysm passes

The cases may be divided into four groups

Group 1. In which the children show general poor condition and vague respiratory disturbances Sudden death may occur without aggravation of

symptoms

Group 2 New born babies who make no attempt to breathe after difficult resuscitation, dyspnæa and stridor are marked Death usually follows in a few minutes or hours

Group 3 Death may occur suddenly during or after anæsthesia There may or may not be pressure symptoms in these cases Symptoms are tremor, weak pulse, and rapid shallow respirations Later, pallor and dilated pupils are present and respira tions stop first

Group 4 Child wakes up suddenly at night tries to stand up, pupils dilate respirations stop muscles

stiffen and he dies

Congenital vestibular Differential diagnosis stridor is entirely inspiratory and its cyanosis disappears on tracheotomy Laryngoscopic exammation, when possible shows malformation of

epiglottis and larvnx

Tracheobronchial glands cause expiratory stridor only and are not congenital Adenoids are ruled out by careful local examination Laryngospasm of infancy is ruled out by other signs of spasmophylic diathesis Retrovertebral abscess and acute laryn gitis, can usually be easily ruled out. Crotti states that authorities disagree on the interrelation between the thyroid and thymus but he concludes that hyperplastic thymus aggravates Graves' disease F H FALLS

TRACHEA AND LUNGS

Tuffier The Results of Operative Treatment of Hydatid Cysts of the Lungs (Sur les resultate du traitement operatoire des kystes hydatiques du pou mon) Bull et mem Soc de chir de Par , 1913 xxxix, By Journal de Chirurgie 168

The author presents a man upon whom he operated five years ago for a suppurating hydatid cyst at the base of the left lung at which time he removed the cyst and the pleura and drained the To day this man is in perfect health, never having had any complications since his operation A ray examination together with auscultation proved the integrity of the lung tissue \ large non painful scar is present at the base to the left and posteriorly on the right surface of the thorax With this case in mind the author studies the process of bealing following the operative treat ment of hydatid cost of the lung Any one of three methods of closing the defect from the loss of substance is possible First the lung alone takes part in the process of repair, the parenchyma undergoing a gradual proliferation replaces the lost tissue. The second method of repair, which takes place only after the first method has failed, is retraction of the thorax which especially in young subjects may result in a deformity of the thorax and spinal column The third method of repair is little known, the author having seen but one case. It consists in the epidermization of the intrapulmonary cavity (the pneumo-cutaneous fistula down into the pulmonary cavity, little by little becoming covered with the skin from the exterior, the fistulæ remain ing small) No appreciable functional trouble results from this last process of repair

I DUMONT

HEART AND VASCULAR SYSTEM

Snoo Heart Without a Right Ventricle (Hart met ontbrekende rechter Kammer) Aederl Gyn Ges . 1913, Jan

By Zeptralbl f d ges Gynak u Geburtsh s d Grenzgeb Snoo demonstrated the heart of a child three weeks old with missing right ventricle and without the tricuspid valve. During life the pulse was weak irregular and beat 220 and more. Heart

Rehn Surgery of the Heart and the Heart Sac Die Chirurgie des Herzens und des Herzbeutels), Berl kun II chnischr 1913 l, 241

By Zentralbi i d ges Chir u 1 Grenzgeb

murmurs could not be elicited

The symptom complex of compression of the heart is pointed out for the diagnosis of injuries to the heart There is a feeling of oppression and pains in the heart region radiating to the left arm and the upper part of the abdomen rigidity of the muscles in the epigastric region, swelling of the liver and marked filling of the years of the neck, a thin thready pulse dyspnora expression of anxiety and X ray examination and the deterconvulsions mination of an increasing area of heart duliness by percussion are important. When the signs of pressure on the heart are not pronounced the diagnosis must be made by the signs of internal hæmorrhage When the patient is found under conditions where operation is not possible, as, for instance, in the coun try the author advises immediate puncture of the pericardial sac to reduce the symptoms of pressure on the heart, and then transportation to the hospital In doubtful cases exploratory opening of the heart sac should be attempted without entering the pleural cavities

The technique of pericardiotomy done in the costo syphoid angle is described A pericardial exudate of a serous serofibrinous or bloody nature can be removed by repeated puncture but pericardiotomy offers advantages even in these forms of

inflammation

In those cases in which the heart is adherent to

the heart sac and the latter with the anterior chest wall Brauer's cardiolysis is indicated (freeing the thorax in the area of adhesions by resection of the ribs)

LAWEN

PHARYNX AND ŒSOPHAGUS

PHARINA AND GSOPHAGUS

Brennemann. Congenital Atresia of the (Esophagus, with Report of Three Cases Am J. Dis Child, 1913, v, 143

By Sute . Gynec & Obst

Brenemann reports three cases of this condition, which has been regarded as rare but which he thinks as more frequent than heretofore supposed. All three of his cases were of the common type, where the upper end of the exophagus ends in a blind pouch, the gastine portion opening into the tracher. The symptoms, of course appeared immediately, after birth, the length of hie in his cases was 75, 30 or 9 days. The loss of weight varied from 25 to a per cent, nearly 75 per car of which occurred in the first three days. Bronche precumons was already to the cases. The temperature in the first few days was usually increased. Scierema was precent in all of his cases.

The diagnosis is easily made from the following

symptoms

I Characteristic return of swallowed fluid from the mouth and through the nose in jets synchronous with the act of swallowing

2 The constant flow of saliva from the mouth and the presence of a frothy secretion before the

and the presence of a fronty secretion before the nose

3 Alarming attacks of suffocation and cyanosis with each attempt at mouth feeding

4 The attempt to pass a sound establishes the diagnosis and also the point of obstruction. The normal distance from the lips to the cardiac end of the stomach is 17 cm in the new born, and the minimum dirimeter of the exophagus 4 mm (Mackenze).

5 The "inosculating" type can be diagnosticated when the stomach is found distended with air

when the stomach is found distended with air.

As to treatment, while one is justified in attempt
ing any operative interference, even this cannot

be expected to bring good results C G GRULE

Sencert: The Treatment of Cicatricial Strictures
of the (Fanhagus (Lettaument des retreessements

of the (Esophagus (Le traitment des retriers sements cicatriciels de l'esophagus)

J d Chr. 1913 x 1

By Surg , Gynec & Obst

In an important discussion of this subject in the trenty fifth Prench Congress of Surgeons (October 1917), the videly divergent views there expressed were the consideration of the consideration of consideration of the consideration of the control of the control of the control of the surgeons did not have access to the aid of mosphagoscopy and that those who did have this and stated to differentiate between structures due to injury by foreign bodies, uters (scarlatinal, diph theritic, syphilitic, etc.), or carcinoma, and the true ccattrical structures. The latter almost always follows the swallowing of caustic alkalis or acids, very rarely the ingestion of too hot viands Patients of the first class rarely consult the surgeon they go to a specialist for gradually increasing dysphagia It is the purpose of the author in this article to

propound a purely practical treatment of burns of the resophagus and their sequella. He makes three pathological classifications of burns of the esophagus First, burns of the first and second degree, limiting their action to the epithelial coat of the mucosa and producing an acute inflammation characterized by ordema of the mucosa, diffuse redness and an abundant secretion of mucus This type disappears in a few days, leaving no trare The second class is comparable to burns of the third The chorion of the mucosa is attacked. the epithelial covering is destroyed and at the outset slough is formed. At the limits of the scar the mucosa is red, cedematous and oozing. The elimination of the slough is very rapid and reparation is commenced by invasions of the neighboring tissue followed by regeneration of epithelium results the formation of contractile cicatrices which, in consequence of the attraction of the neighboring mobile mucosa towards the retracted point, leads to the formation of a fold of mucosa projecting into the lumen These folds may take the form of circu lar diaphragms according to the extent of the circumference involved. In the third class, comparable to burns of the fourth, fifth and sixth degree, not only the mucosa but also the submucosa and a portion more or less important of the muscularis are from the start destroyed At the borders of the slough there is a very intense inflammatory reaction, the mucosa is red, cedematous and stiff. It is the site of less intense burns which prolong the principal burn below but especially above. Here the chmina tion of the slough is slow except in rare instances in which the mucosa and submucosa cast themselves off in the form of a mould of the esophagus Ulceration may be present six eight, or ten months after the accident and during the whole time of repair the site of the ulcer is an atrium for infection of the periorsophageal tissues Little by little cicatrization takes place, coming to an end naturally by the production of very retractile fibrous masses, whose presence determines a callous stricture" Almost always the entire circumference is involved. According to the length of the cicatrix it is termed 'annular" or "tubular" The degree of stenosis may vary up to "complete stricture

The esophageal wall above the stricture under goes important changes II the stricture is just permeable there results a hypertrophy of the musculars. If the stricture is tight and the wall above is sufficiently changed there may be dilatation of the crosphagus above the stricture though Sencert believes contrary to Guisez that dilatation is very rare.

The position of the stricture depends upon the physiological conditions at the time of snallowing If the act of snallowing is accompanied by a deep inspiration, the esophagus escapes serious injury the stomach, particularly the pyloric end receives the brunt of the burn, the esophagus being injured only along the summit of the longitudinal fold of the mucosa. With the patient breathing normally at the time of swallowing, as is most often the case, the fluid collects at the closed cardia and burns a variable distance above this point before passing into the stomach or being ejected by vomiting only a small quantity of figured is ingested it is stopped at the normal narrowings of the esophagus e g . aortic and bronchial stenoses The result is a burn of the thoracic portion of the asophagus The author cites you Hacker's statistics which in one hundred autopsics, give thirty four cases of burns at the cardia, eighteen cases at the site of the aortic tho almost half of all and bronchial stenoses cases have multiple strictures mostly two some times three or even four

The author makes two clinical classifications according to the time at which the patient consults

the surgeon for treatment Class 1 The patient comes with the typical history of swallowing a small quantity of caustic liquid some weeks or months before, with resulting Although by auscultation and the stricture radiograph we can gain much confirmation for the diagnosis of stricture based on the history, it is necessary, in order to establish with precision the indications for treatment to gain as much informa tion as possible about the anatomical Jesion particularly important to differentiate a beginning carcinoma from stricture following a burn can only be done by means of the ecsophagoscope The author places the nationt in the dorsal position and under local an esthesia introduces the ersophago

scone If the initial burn is completely cicatricized as seen through the a sophagoscope catheterization under control of the eye gives this additional information the permeability of the stricture its straight or sinuous direction and its length There are two possibilities Either the stricture is easily permeable, the direction of the lumen renders catheteriza tion easy (the length of the stricture is of little importance) or the stricture is impermeable or permeable with great difficulty because of the eccentricity of the orifice or the presence of deep furrows or diverticuli, the filiform bougie advances with great difficulty and meets at each instant some resistance whose character it is impossible to tell. The therapeutic indications are very different in these two Cased

In the first case, with the stricture permeable and catheterization relatively easy, allowing inspection of the length of the stricture, its treatment may be medical or surgical

The medical treatment consists in the employment of subcutaneous injections of thiosinamine or of fibrolysin, care being taken to suspend treatment if marked inflammatory action results. If no effect upon the stricture is noticeable after twelve injec-

tions, none is to be expected from further medication and it is necessary to turn to surgical treatment by "methods of treatment intra-cesophageal through natural channels."

These surgical methods comprise treatment by dilatation, by electrolysis and by internal esopha-gotomy Dilatation is obtained rapidly by divulsion, which the author condemns, or progressively by means of graduated bougies This is the method The bougies should be passed while usof choice ing the esophigoscope until size No 16 is reached From here on blind catheterization may be used In the manipulations the successive bougies should pass easily without the use of force Permanent dilatation by means of tubes left in place varying lengths of time also has its uses in cases where the stricture is not easily accessible, or where it has been hard to find and free the superior orifice. Gum bougies may be left in place forty eight hours, rubber tubes with metal mandarins and the especially constructed tubes of d'Ebstein, von Hacker Guisez, etc for one half to three hours

Flectrolysis, two methods—linear and circular The former by which the stricture is simply cut through is not to be compared with the latter which is carried out by means of a nickel olive. With the indifferent electrode on the thorax, a current of 12 to 15 milliamperes is turned on and the olive on the end of a sound is gently forced through the stricture Cannot be dilated by simple means is large enough to admit the olive point and is very short.

The third method, internal cosophagotomy by means of the osophagotome, is a blind and very dangerous proceeding and is indicated only in those very rare cases where the stricture is valuelar or callous but very short and very hard, and of course, not amenable to treatment by dilatation or electrolysis

In those cases in which the stricture is impermeable or permeable with great difficulty an entirely different mode of attack is necessary. The first indication is "gastrostomy" which serves the double purpose of permitting the patient to be nourished and of giving access to the inferior end of the stricture The gastrostomy should be made through the stomach wall at or above the line of the cardia, should be small and fixed high in the abdominal wall In many cases rest of the esophagus following this operation relieves spasm and permits a fine bougle to be introduced Once the bougie has entered the stomach through the esophagus, a means of dilatation absolutely under the control of the surgeon is at hand The end of the boughe in the stomach is found and withdrawn through the gastrostomy wound by means of an endoscopic tube Heavy silk is attached to both ends of the bougie, and whatever means of dilatation the surgeon wishes to employ may be drawn into the stricture from below The author prefers the rubber tube, which he leaves in place ten to twelve hours, replacing it by larger and larger sizes It is very necessary that dilata

tion be delayed until the burn itself has healed. He claims for this method rapid, excellent results, with out danger to the patient.

Unfortunately all such cases do not become permeible even after prolonged rest. Temporary cervical exophiquotomy has been done by eminent surgeons for this condition, but Senert cannot see its justification. He substitutes "retrograde assoniaroscoms."

The technique is as follows Patient is placed in the dorsal position, the gastric fistula is dilated to admit an esophagoscope 5 mm in diameter which is introduced into the empty stomach. If the carrier is difficult to find, the patient is made to drink some colored fluid. A few drops trackle through, the resophagoscope is introduced and advanced very slowly because where this procedure is necessary we are always dealing with a long tubular structure Placing the patient in the Irendelenburg position facilitates the introduction of the instrument stricture once located an attempt is made to find an opening (colored thatd again used) in order to introduce a fine bough. If the procedure is success ful the dilatation without each can be carried on as before mentioned Hestrolesis or internal ersophigotoms might also be done from below but are both more dangerous and less cert un than dulatation

In a sety few cases will this method of extegrad, exophisposcopy fail to extribid an opening if sophisposcopy from above and from below gaves a dear disk of the nature of the structure. If the cases or obstruction is immediately at the cardos and retringrade esophisposcopy has told to not an opening the stomach may be incredibly to the man of the fortilde discious in these cases, does preferring a small opening through the cardos and the dilutation without end.

If all the previously mentioned methods have fuled and one is in the presence of a very long tortious stricture absolutely impressable from above ind below it is necessary to resort to extra resophagial methods which may attack the stricture direct after exposure of the exophagus or circumvent it.

by a new passage for food
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stricture both applicable, only to strictures of the
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There are also two methods to circumvent the stricture. (r) the exophagogratrostomy applicable to short tubular or annular strictures at the cardia and using the fundus of the stomach for the anatomosts (a) the exophago jejuno gastrostomy of

is ophagus after all other methods have failed. In summing up, the author states that if all methods of intrathorance treatment base failed, the surgeon must never to a pallative ejestrostomy with recourse to one of the extrac-sphagual methods very short, one should loan external esympagual methods very short, one should loan external esympaguance or the exceptage should loan external esympaguance or the exceptage should loan external esympaguance or the exceptage should loan external esympaguance of the exceptage of the except

Roux, which is indicated in strictures of the thoracie

The second great chinical group of burns of the asphayase consists of these cives which precent themselves to the surgeon in shock immediately after the burn or duing from builder the burn dear of the great part of the state o

gitis or medicitinitis In a brief resumé the author again emphasizes that in the first class of cases which consult the surgeon some months after the initial burn the first step is to ascertain by the aid of the ersophagoscope whether or not the burn is healed. If healed, he commences by greenhagoscopic dilatation, and, if the catheterization is difficult be gives the preference to permanent dilatation | Luceptionally, if there is a very tight and very short abrous ring electrolysis or internal a sophigotomy may be implosed. If dilatation is impossible on account of impermeable strictures a gastrostomy is done and the cure of the stricture is accomplished by means of dilatation without end with or without retrograde resophagos In case these methods fail which is very LODY exceptional an extra resophageal method of treatment must be chosen resophagotomy or resoph agectoms for impassable strictures in the cervical conhagus, and for strictures of the thoracic ctsophagus, in every sense impassable the asophigojejuno gastrostomy More often the surgeon is called upon to treat the second great class in which the initial burn is not yet healed here it is the duty of the surgeon simply to satisfy himself as to how much time has elapsed since the accident. In these cases the dysphagia and emaciation demand intervention-gastrostomy. It is not until considerable time has clapsed when one can be sure the burn has healed that the surgeon has the right to treat the stricture. Then one should always use the diffration without end LLIS LISCHEL

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Eyler: Permanent Subcutaneous Drainage Without a Drain (Cher Dauentranage unter the Haut

ohne Drains) Med Alin 1911 17 214

By Zentralbl f d gis Chir u i Grenzgeb

The author advises perminent subertaineous drainage in cases of a series to in mixing a small distribute between the retit musels. This is surjoined by peritionein and revides from the abdominal existy to the subertaineous tessues. It is covered with slim. The author his never seen herma resulting in this cases. In cases of pleasand hermals as perminent with the rise. The cases have made and the cases of perminent of the cases of perminent of the cases of perminent classified with the mixing of the cases of perminent classified with the method of drainage in cases of clausin on the knee joint mucous followles and graph. Returning point mucous followles and graph.

Kuester Indications and Results of Abdominal Tampon Drainage (Indicationen und Resultate abdominaler Fampiondraina, Munch n. med Welmicht 101, 18 241

By Zentralbl f d kes Gynak v (achurtsh s d Grenzgeb

In fifty five cases of 1 5"4 laparotomies performed at the University Chine in Breslau, the author has performed abdominal timpon draining and advocates this procedure for controlling parenchymatous hemorrhage where other remedies ful to accomplish this he used it also in wounds of cavities with presumably escape of quantities of sceretion from the wound and finally in cases where in infection was suspected. In the latter cases a channel which is closed towards the free peritoneum is formed by the dramage and the wound secretion thus is led from the pelvic cavity. This drainage is unwarrant ed in diffuse peritonitis and ascites, because a permanent drainage cannot be effected and because the tampon would cause adhesions of the peritoneal surfaces to the surrounding structures in a very short time

The disadvantages of the abdominal tampon drainage are the prolongation of the after treatment and the eventual formation of hermas which latter however can be prevented in many cases by suture twenty four hours after the operation.

H ALBRECHT

Danielsen General Purulent Peritonitis Caused by a Tape-Worm (Allgemeine eitenze Peritonitis durch Bandwurm) (I dinchen med II chnicht, 1913 lt, 411

B) Zentralbi f d ges (synak u Geburtsh s d Grenzgeb

The author reports a case of general purulent pentonnis in which the intestine had been per forated. A tape worm was found in the free abdominal cavity, its head had entered the right tube. Near the tube was found an ovarian cyst. The explanation for these findings the author.

derives from the fact that two years necessary in the printer had been affected with cophoritis and subjuggits. This led to adhesion between the firmation of the factor. Through this perforation the tape worm had partially crawled. When the subjuggits healed in consequence of good drainage the adhesions between the imbirit and the intestine loosened and health gave way due to the movements of the worm. The rest of the tape worm entered the free abdominal cavits and together with the contents of the intestine which had point of from the performance of the intestine which had point of from the performance of the intestine which had point of from the performance of the properties of the pro

Ferguson Medical Aspects of Septic Peritonitis Conad Pract & he 1913 xxxviii 60 By Surg Connec & Obst

Peritonitis may be classified as primary, when no causative lesion is present, and second irv when the infection is from within the body (endogenous variety) or from without (exogenous variety) primary form occurs in about 10 per cent of all cases with the picumococcus responsible for go per cent and the staphylococcus pyogenes aureus for 8 per cent. Of the secondary form about 73 per cent are endogenous the balance exogenous. and a great variety of organisms have been found present - B coh streptococcus staphylococcus tureus B acrogenes capsulatus, staphylococcus albus pneumococcus B pyocyaneus B proteus, B typhosus and the gonococcus most frequent in the order named and usually in combination with une or more others

In discussing the six of the initial lesson I erguson quotis the XI Domas Hoppital statistics, which give initistinal obstruction of some variety as the cause of 30 per cent appendicutes 37 per cent, perforations of the gastro initistinal tract 17 per cent, perforations of the gastro initistinal tract 17 per cent, persumably primary as no lesson could be found. The location of the lesson and the form of organism has much to do with the cause of the disease. In gastro perforation of the small initiations is said in the perforation of the small initiations is said in the perforation of the small initiations is said in the small initiations is said in the small initiation is said in the grant of the small initiation is said in the small initiation is said in the perforation of the small initiation is said in the small initiation in the small initiation is said in the small initiation of the small initiation is said in the small initiation of the small initiation in the small initiation of the small initiation in the small initiation is small initiation.

listetus may pass hirough injured or inflamed organs without actual perforations being present, but they alone are not sufficient to cause a perition it, as the defensive powers of the peritioneum may be circuit to preventing it. These latter are quoted from Andrews as being divided into physiological from Andrews as being divided into physiological from Andrews as being divided into physiological from Andrews and the mesoblasts) and pathological (no studies and the mesoblasts) and pathological (no studies) and pathological sating of leucocytosis, hyperenia and exadition) The discase tends to be fatal at the extremes of the discase tends to be fatal at the extreme as applying the public, and among unfavorable symptoms are a rapid public, low temperature, abdominal distention, and absence of leucocytosis. Of importance in prognosis is the time of operation op oper cent of all cases of septic perstionities are exsentially surgical and if operation is done within 12 hours it should succeed, but if postpond 21 hours, the outlook, is grave.

The treatment is essentially surgical, but when the patient is first seen and before operation the following treatment is suggested by Corner position no food normal saline per rectum no opiates gastric lavage and the education of the patient to the benefits of operation. The post operative treatment includes continuous normal saline per rectum vaccines and sera intificial leucocytosis gastric lavage for nausea hot applica tions enemata rectal tubes and the administration of escrin, atropine or pituitary extract for abdominal distention sinapism inemata lavage sedative drugs or morphine in small amounts for hiccough and the use of the utmost care in the resumption of F & ANNATRON feeding

Riebel Subcutaneous Rupture of the Diaphragm and Positive Pressure, an Experimental and Clinical Study Sure Grace What, 1913 xv By Surg (sync & Olst

The mortality of subcutaneous ruptures of the diaphraem is very high. Operative treatment has so far not given good results. Richel reports a case of a boy who sustained a rupture of the dia phragm with prolapse of the stomach into the left pleural cavity The diagnosis of rupture was made and the box operated on by the abdominal route three hours after the accident. On withdrawal of the stomach from the pleural cavity respiration became quite shallow and finally ceased entirely Direct heart massage was practiced and the heart contracted aggorously for a while, but respiration could not be re established With the intention of studying both the physiological side of rupture of the diaphragmand the safeguarding against termina tions, as in his own case a number of experiments on does were undertaken The insufflation method of Meltzer was employed to maintain thoracic equilibrium None of the dogs died from the immediate effects of the operation Fight dogs in all were used Three of these recovered and four died of infection ranging from 3 to 10 days after operation. In four of the dogs the chest route was chosen, in the other four an abdominal incision was There appeared to be no difference except that of easier access by the transpleural route Resection of a portion of the costal arch after the method of Willy Meyer give ideal access to tears of the diaphragm located posteriorly. It caused an extreme inspiratory position of the diaphragm and thus rendered it accessible for suturing through

the abdomen
Riebel emphasizes the sharp difference between
subcutaneous and transcutaneous diaphragmatic

wound He collected to cases from the literature. of these 2 recovered after operative interference His experiments led to the following conclusions (1) The diaphragm in man has an important in fluence upon the heart action in its anatomical relation to this organ, (2) it is an important factor in the circulation by aiding venous return, especial ly from the abdominal cavity, (3) it plays an important part in maintaining equilibrium in the tho racic cavity, (a) runture of the diaphraem is necessenly followed by serious disturbances of respira tion and of equilibrium within the thoracic cavity. (3) the mentable prolapse of abdominal organs, following subcutaneous rupture, still increases this condition frequently producing a state of positive pressure in the thoracic casity, (6) the use of differential pressure is absolutely necessary to overcome these factors (7) it will insure better results, in these cases permitting furthermore the choice of an abdominal or transpleural route, or both as the occasion requires (8) the character of pressure, whether positive or negative is of little consequence, but the method of Meltzer is simple and can be used anywhere. (a) in cases of suspected subcutaneous runture of the disphragm insufflation should be employed with low pressure before operation to overcome the deleterious effects of disturbed intra-

Friedman Hernia Adiposa Ann Surg, Phila,

thorack couldbrum

A pure fat herma is extraperationeal in origin is not accompanied by a peritoneal sac and originates from the preperatoneal fat

Three distinct conditions may be present (a) fat herms without true herms sac (b) fat herms with accomprising it and (c) lipoma of canal not giving rise to 55 minums

It is more often found in the inguinal canal in the male in the crural canal in the female, or through a split in the linea alba usually above the umbilicus

As an independent condition — that is without a true hermal size a comprirtuely uncommon. Usually both fatty mass (extraprinental) and herma size is present. But this is not true fat herma and should not be termed as such.

Thorough exploration of the fat mass when pret en is of practical importance and value during hernia operations because a small hernia sac may be covered over by it and overlooked. The fat mass may be prevessed fat, caution should therefore be exterised not to insure the bladder.

These fat masses may be a potent factor in causa ton of true berna, they hypertrophy, stretch and neaken the muscular and fascial investment of the canal and in hermating through the ring a process of peritoneum is dragged with it, so causing a true herma sac

Like a herma, these luomata may become either

strangulated or irreducible. When they grow to large size and assume the characteristics of a

hernia, the diagnosis is difficult, especially so its

In reducible fat hermas the characteristic "doughy feel" which a hipoma gives and the fact that it is not entirely reducible may be a clue to the true nature of the condition present

Irreducible fat hernia cannot be differentiated from irreducible omental hernia Impulse on coughing may or may not be present in either case

Thorough removal of all fat masses is necessary as their presence tends to prevent proper closure of the canal by sutures, and because they undoubtedly tend to weaken the canal and so predispose to formations of true herma

Collins: Strangulated Inguinal Hernia in Early Infancy. Ann Surg Phila, 1913 lvu 188 By Surg, Gynec & Obst

The author reports a case of his own and discusses other instances of a similar nature occurring in children under as months of age which have appeared in the literature. The case of Woodbury is, operated upon a bours after both are case of Woodbury is, operated upon a bours after both are case of woodbury is, operated upon a bours after buth are cited some of them at length. The author's case was operated when it days old Bloody muous stools and factal vomiting preceded the operation by 12 hours. The infant weighed 43' pounds when operated. Recovery followed. Between 1 and 6 months of age the recorded cases are breated from Maker and Puttolin reports.

There seems to be no general agreement as to the specific cause of strangulation in infants. The condition is comparatively rare, though in the last law years case reports are becoming more numerous. The specific cause of the specific case
The cardinal symptoms peculiar to infants are wolvent and uncontrollable serraming, recurrent coming (often facal) tendency, to retention of the control of

operated promptly Fear of infection should not be considered a serious objection to operation when done under proper conditions The tender age per se is no contraindication. Campbell's tox infant operations showed 34 per cent under six months of The mortality should be much less than in similar cases with adults - Dowd and others believe it should be below to per cent. Reid believes less than I per cent Taxis is dangerous, and rough handling courts disaster With the failure of reduction by taxis, operation is imperative, death is the alternative Gangrene is the ultimate result of unrelieved strangulation The simplest operation is the best The primary object should be the savby taxes tend to increase mortality Rapidity of necrotic changes following embarrassed circulation. as well as early appearance of shock, demand urgent treatment Manipulation of the sac should be tempered with care lest the delicate vas be injured The author presents a table of 13 reported cases gleaned from the literature since 1007

Phillips Epigastric Hernia Its Importance in the Diagnosis of Obscure Abdominal Conditions. Cleteland V J, 1913, x11, 102 By Surg Gynec & Obst

The author reviews the literature of engastric herma and emphasizes its importance because the symptoms which it produces can simulate many acute and chronic diseases within the abdominal cavity in a total of 7500 cases admitted to his medical clinic there were 12 cases of epigastric hernsa a frequency of o 56 per cent. The proportion of males to females was five to one majority of cases occur during the active period of life, between 30 and 40 According to etiology. the cases may be divided into four classes (a) congenital weakness of fascia, (b) ingrowths and preperitoneal fat into fascial defects (c) trauma, and (d) chronic strain such as cough, vomiting, sneez ing pregnancy From the standpoint of pathology, in 38 cases described by Thomas he found fat alone in 6 cases peritoneum in 2, omentum in 26, and intestine in 4 In rare cases they may contain part of the stomach or transverse colon. Occasionally strangulation occurs The herma is usually the size of a hickory nut and situated in the median line. but in one case reported by the author the herma projected three inches above the level of the surface of the abdomen and the diameter at the base was 41/2 inches Many patients have no symptoms The chief symptom is pain in the epigastrium referred to bladder, testicles, rectum or to chest and arms. and increased by bending backward kneeling or sarring Other symptoms are heartburn, cructa tions of gas, comiting flatulency palpitation of heart constipation or occasionally diarrhoga, headache and dizziness The dictum of Rector over a century ago should be emphasized "Do not forget that small hidden herma may cause all varieties of stomach symptoms' In the majority of cases

gastre analysis shows byperacidity. The diagnosis is usually easily made by inspection and palpation They show more plantly if the patient is asked to strain or to rause his head from the pillow, or by coughing. To differentiate herma proper from fatty tumor, Litten attacts that if the hand is placed over the mass whole the patient coughts the observer gets the impression as I water were being squirted through against the hand in herma proper, but not in tumor. Elipsatric herma may be contised with in tumor Elipsatric herma may be contised with cholethasis; cholecystitis in ephrofulmasis, rardy with gastric carcinoma angina pectons gainer circums of tables or collis. Operation is the only effective treatment and gives good results.

Vogel Diaphragmatic Hernia, with Report of a Case. Am J. M. Sc. 1913 cxlv 206 By Surg., Gynec & Obst

According to Vogel, the condition is much common than the number of published cases would lead one to suppose for even the most extreme types may get may be no subjective symptomical armount of the suppose of the sup

any instances to ascertain its exact nature. He classifies diaphragmatic hernias as follows.

1 True hermas (A) True congenital hermas in which pleurs and pentioneum form the sac and only the musculir or tendinous layer of the diaphragm is absent, (B) true acquired hermas (a) true typical acquired hermas with the ring originating at one of the natural forations, (b) true typical acquired hermas with the ring developing in a situation other than at one of the natural forations.

2 False hernias (a) Congenital false hernia through a congenital defect, (b) acquired false hernia due to traumatic perforation of the dia-

phragm, and either acute or chronic

3 Diaphragmatic eventration due to relaxation of the diaphragm, and either involving an entire half of the diaphragm or localized in the form of a diverticulum

The diagnosis of this condition is often beset with many difficulties, especially in congenital defects which frequently give rise to symptoms only late in life, often as the result of apparently negligible inciting causes, such as dancing exertion, exposure or loss of flesh

The physical signs in cases in which the herma is large are usually significant and often conclusive. A displacement of the heart to the right is very common and should always lead to suspicion of some form of diaphragmatic herma if the more usual causes of destroardia can be excluded. The Rontgen ray is by far the most reliable diagnostic

Differential diagnosis must be made from such conditions as pneumothorax, subphrenic abscess,

subphrenic pyopneumothorax, and esophageal diverticulum Hæmatemesis, incarceration, volvulus, and strangulation are the most dangerous complications

As far as treatment is concerned, it may be studied of the traumatic hermais that a soon as the causence of a fresh wound of the daphragm is ascertained immediate operation by abdominal or pleural route is indicated, in some cases the combined route. In chronic hermais the treatment is entirely directed to prophylaxis of incarceration by attention to due and avoidance of vomiting and constitution, pregnancy is to be prevented. Surgery is indicated only in case incarceration occurs.

Vogel's case was an extreme instance of congenital diaphragmatic herma existing without subjective symptoms. The left chest was filled with omentum, caput coli transverse and descending colon, a few inches of the ileum were lying above the diaphragm. R. W. WCYSTU.

Gillespie Treatment of Gangrenous Hernia by the Combined Anastomosis and Fistula Operation. Practitioner, 1913 No. 455 By Surg Gynce & Obst

In the effort to further lower the mortality after operation for gangerous herma the authors suggests a "combined anastomosis and fistula operation" which he believes to be of greater value than either of the previous methods of procedure—the immediate anastomosis after wide resection, or the resection with a temporary fistula and a later anastomosis.

After resection of the intestine the lower open end of the put is closed and a or 5 mickes is measured off, from the end of the upper portion this marking the six of anaxomous while the measured section forms the tail" of the fistult. A lateral anaxomous is now made then a rubboulde be six introduced into the six of t

The main advantages of this method are (1) It is not necessary to resect to much of the intestunes (2) The fistula does away with the results of the and the distortion of catalog being free until the normally descending peristaliss of the gut is resumed (3) Food may be given early as the lack of obstruction prevents overloading of the intestine (4) The anaxismous is kept at ir set until the suture line

The disadvantages are that a second operation is necessary and the irritation of the skin which often follows a delayed closure of the fistula, but this may be prevented by proper attention

E & ARMSTRONG

Cunto: Wounds of the Lesser Colic Artery During Operations on the Stomach (Sur h blessure de l'artére colique moyenne au cours des opérations sur lestomac) Bull et mem Soc de chir de Par , 1913, By Journal de Chirurgie XXXX, 174

Cunéo states that injury to the lesser colic artery is not rate in stomach surgery it is not infrequently injured in gastrectomies and occasionally in gastro

enterostomies

From the reports of cases in which this artery was injured, it seems that consequences from its liga tion are not to be greatly feared. Cunes reports two cases of ligation of the lesser colic artery which he performed on account of injury to the arters in a gastrectomy and in a gastro enterostomy hrst of these cases, the wound was due to an anomaly in the artery, in the second to faulty technique (seizing the artery with a toothed forcers) In both cases trouble ensued

Generally this ligation causes gangrene of the colon which however is not necessarily fatal as these two cases and others in the literature show this it seems that heation of the lesser cola artery is not necessarily followed by serious consequences On the other hand when this ligation is accompanied by tearing of the mesentery or its separation, gangrene of the colon is of frequent enough occur

rence to justify a colectomy

Ombredanne found among other lesions in a man stabbed in the abdomen by a poniard a rupture of the right main colic artery which was bleeding He lighted both ends of the artery and obtained an ischemia of the whole ascending colon and so apparently a grave prognosis But contrars to his expectation the wound healed without trouble This is an observation to add to those of Cunéo and goes to show that the great vessels of the colon can be ligated near their origin with less damage than would be expected from the anatomy of the part J DUMONT

GASTRO-INTESTINAL TRACT

Dehn. Spasmodic Condition of Stomach and Intestine as Seen by the X-Ray (Uber kramp fastige Zustände des Magens und des Darmes com rontgenologischen Standpunkte aus) Russk I ratch 1913, XII, 80

By Zentraibl f d ges Chir u 1 Grenzgeb

I stasis of the contents of any part of the gastro intestinal tract can at times be observed due to spasmodic contraction of the gut below The first portion of bismuth paste is sometimes held for hours near the cardiac end of the stomach. The fundus of the stomach below the engorgement appears to be so much constricted that food can not pass to the pyloric end Such observations of spasm of the stomach have been observed in cases of neurasthen ics suffering from catarrhal conditions of the stom ach It can also be observed in ulcers of the duodenum Such spasms occur, not infrequently, in cases of gastro enterostomy for ulcer of duodenum,

and may result senously Spasms of the stomach can bring about very serious disturbances because the lumen of the stomach is obliterated just above the place where anastomosis is made. Spasmodic contraction of the small intestine has not been studied very much so far On the other hand much has been written about spasmodic contractions of the large intestine particularly in its relation to constitution which results from it. In such a case the X ray shows that the large intestine appears from two to three times smaller than normal

Sequinot The Necessity for the Exclusion of the Pylorus as a Complementary Step in Gastroenterostomy and a New Procedure for Exclusion of Ulcer of the Duodenum (De la necessite de la gastro entérostomie et d'un nouveru procéde d exclusion dans l'ulcère du duodénum) These de doct ; Parts Iget lan By Journal de Chirurgie

The author after having shown the insufficiency of gastro enterostomy in all cases where a true stricture of the pylorus did not exist, and after having shown the advantages of exclusion of the pylorus gives a description of a new procedure The wall of the duodenum is held between the thumb and the index finger of the left hand and a transverse fold is made With the right hand a seto muscular suture is placed guiding the needle with the fingers of the left hand in such a way as to encircle the duodenum and bring the needle out at the point of entrance A second row of sutures, of No 2 silk is passed in the opposite direction in such a way as to bury the first row Thus the duo denal wall is plaited in such a way as to obstruct the lumen

This method has been adopted in three instances One patient died the following day from an attack of angina pectoris The two other operations were successful and the patients examined at a recent date had greatly improved I L ROUX BERGER

Houdard Simple Ulcer of the Duodenum, Without Perforation (L ulcére simple du duodénum, non perforé) These de doct . Paris 1013 Ian By Journal de Chirurgie

This article gives an excellent exposition of the question of juxta pylonic ulcers in general and of duodenal ulcer in particular. It was based upon seventeen personal observations from the service of Prof Hartmann There are several interesting illustrations, reproductions of pathological specimens and dissections of the veins of the pyloric region

The author concludes from his observations that though duodenal ulcer may give the clinical picture which Moynihan has described, this picture is really a pyloric syndrome which likewise may result from the juxta-pyloric ulcers of the stomach. In other cases the syndrome is more or less disassociated and the ulcer gives a chinical picture more vague and indefinite, and sometimes wholly latent

certain extent, the symptomatology may depend upon the distance of the ulcer from the pylorus, but this is not absolute, since certain ulcers, well removed from the pylorus, give rise to the pylorue syndrome, while others yield only some of these symptoms

Houdard believes that the co existence of duo denal and gastre uleres is rather frequent and partly explains the indefiniteness of the symptoms. The dargnoss of duodenal uler, is still quite difficult and usually cut he made only by exclusion. From the point of vice made only by exclusion. From the point of vice that gastro enterostomy gives good results and does not judge that in simple cases it is natics-sary to exclude the pylorus. If bleeding is sudden abundrif, and is causing immediate dringer to life operation is contain indicated. On the other hand intervition is midicated in the cross of hamorrhighs which to like frequent regulation are immensed to the contained of the contained on the

Houlard performed twenty dissections of in jected subjects and in only five cases did he find the venous anastomosis which constitutes the prepylone year. I our times this year was on the duo denum, once it was close to the pylorus on the gastric sale. The most usual arrangement of the veins was in the nature of a spray of branches spread over the anterior surface of the pyloric duo denal segment. The author states that there is nothing in the arrangement of the veins of this region which could serve to localize the site of the pylorus and such yeins as are apparent without dissection (as one sees them in operation) on the anterior surface of the pyloro duodenal segment offer no surgical landmark of constant existence or easy J I ROLY BERGER recognition

Ropke Operative Treatment of an Injury to the Duodenum Caused by Blunt Force (Cher die operative Behandlung der durch stumple Gewalt entstandenen Duodenalverletzungen) frek f. klin

Chir, 1913 c 205 By Zentrallil f d ges Chir u i Gienzgeb

The author reports a case of lesion of the ascend ing part of the duodenum with marked mutilation and a curling up of the serosa and muscularis of both ends, in which two hours after the injury he per formed a median laparotomy with uneventful The injury to the intestine could be exposed only after pulling apart the edges of a tear through the root of the mesentery immediately above the mesentene vein and artery ming off the tattered edges up to the sound gut the proximal end was anastomosed laterally with the jejunum, while the distal end was drawn under the plica duodeno jejunalis and then inserted into the posterior wall of the stomach After carefully washing out the abdominal cavity and suturing the tear in the mesenters, he closed the abdominal wall completely Finally he made a facal fistula in order to incite peristalsis with lavage of the intestine and for the introduction of nourishing enemis. There are in the literature several cases in which the lesion of the duodenum remained undiscovered, even during the operation Suspicion of an injury to the duodenum is aroused by a localized particularly severe pain to the right of and below the umbilious whose presence can often be determined by a tenderness on pressure, as in a perforation of a duodenal ulcer. It must be remembered that in rupture of the duodenum gas and intestinal content need not be present in the abdominal cavity, especially when the mesocolon and the radix mesentern remain uninjured. Occasionally there is in the area of injury an accumulation of fluid which forms a tumor like swelling of the mesocolon, which can be pulpated before operation through the abdominal wall To get at a retroperatoneal duodenal injury Ronke advises, unless contraindicated by accumula tions of blood or pus a mobilization of the duodenum according to Kocher II this does not suffice a passage can be made without particular injury to the vessels between the root of the mesentery and the mesocolon instead of making an unreliable direct suture which results in a difficult passage The proximal end should be united with a loop of the serunum while the distal end should be fixed to the stomach NEUPERT

Bunting and Jones Intestinal Obstruction in the Rabbit J Lxp Med., 1913, Xvn, 192 By Surg Gynec & Obst

The study of the cause of death in high intestinal obstruction has led to no unanimity of opinion Bunting and Jones used the raibiit for experimental work. It cause the long loop of the duodenum between the points of entrince of the blie duct and the parametric dust makes easy the cutting out of these secretions from the duodenum so that the suffer of the control of the duodenum as of that the studied entring the control of the duodenum areas may be suffered entring the control of the duodenum areas may be suffered entring the control of the duodenum areas may be suffered entring the control of the duodenum areas may be suffered entring the control of the duodenum areas and the control of the duodenum areas and the control of the duodenum areas and the control of the duodenum areas are s are control of the duodenum areas are control of the duodenum areas are control of the duodenum areas are control of the duod

Duodenal obstruction 25 cm from the pyloms produced death in less than 20 hours. Death fol lowed obstruction of the upper ileum in 40 hours. Ligation below the easure acased death in 11 days. That death in these cases was not due to hile or panerative excetton was shown by ligating the ducts. Ligation of the pylorus produced death in 36 to 35 hours.

This death is not due to lack of duodenth series on spowed by the fact that ideath follows excision of the duodent loop in the same time as after simple plotter legation. The contacts of the closed duodental loop is shown to be touch by injection experients. Interpretational injection of 20 ce kills a 1000 grabbit in less than 20 hours with many of the symptoms ween in obstruction cruse. It is improbable that this totan is becternal in origin, because of the great syranger in intestinal flora and the obstruction of the great syranger in intestinal flora and the obstruction with the probable of the probable of the symptoms. It seems approved the symptom is the centil approved the control of the symptoms of the symptom in order that sufficient toxin be secreted to kill in 24 hours or less. And further, it seems that in look lighting or less.

about 100 cm of intestine below the duodenum is necessary to overcome this ripidly fatal effect. It should be possible to save the life of the animal by duodenostomy, but, owing probably to faulty technique, this procedure was not successful. JAMES I CHERGHELI

Forssner: Pathogenesis of Congenital Atresia

of the Intestines (De medfodda tarmatresiernas patogenes) Alfm nen Lakiri 1913 x, 36 By Zentralbl I d ge- Gynak u Geburtsh s d Grenzgeb

The author found a thickened epithelium in the bowel of an embryo 20 mm long, especially in its cranial portion, which crossed the lumen immediate-Iv beneath the duodenum in thick irregular bands At several places the mesoderm grew into these bands far to the center and at one place these cones met from three different sides so that the mesoderm of one side continued into that of the other finding confirms the author's view that the origin of congenital atresia consists in hyperplastic develop ment of mesoderm cones which, according to Johnson, represent the earlier stages in the formation of These atresias therefore are not to be considered as arrests in the development of epithelial occlusions BIORNEVHEIN

Bollag: Arteriomesenteric Occlusion of the Intestine (Zur Kenntnis des arteriomesenterialen Darmverschlusses) Cor Bl f schneix Arzie, 1913,

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The patient presented the following clinical picture while confined to her bed for a fracture of the femur continued vomiting and enormous enlargement of the stomach which succussionsplashes showed to be still filled with liquid matter (making a positive diagnosis possible even before the operation), while the abdomen was otherwise soft and presented no signs of tumor The operation revealed an enormously enlarged stomach that reached almost down to the symphysis There were no signs of hour glass formation The pylorus was normal with a free passage the width of two fingers and presented no pathological changes on its surface. The superior portion of the duodenum was enormously dilated up to the point where the radix mesenterii crosses the inferior portion of the pars horizont inf duodeni Below the radix jejunum it was atrophic flaccid, and collapsed As the radix was raised the jejunum at once filled with air and liquid matter Gastro enterostomy was not attempted and further operative measures were confined to emptying the contents of the stomach and the duodenum into the unaffected sections of the intestine and relieving the tension of the radix as much as possible by raising the lower flexures of the intestines Six days later there was a recurrence of intestinal occlusion and the patient suc-

It should be mentioned that the report of the operation calls attention to the presence of a

marked lordoss, of the spinal column, at the level of the pilorus and extending to the suth tib. Just above the highest point of the lordosis the radix meantern branches off. It is this lordosis which the author holds responsible for the development of the chronic and periodically recurrent arteriomesthere intestinal occlusion.

DeRouville and Roger Multiple Ulceration and Perforation of the Small Intestme and Caccum from Virulent Post-operative Intestinal Intoxication (Ulcerations et perforations multiples del intesting gree et du caccum par tost infection intestinal stragge post operation? Arch d mol d Pappar dig c d 1 mitr, 1913 311, 24

By Journal de Chruttere

The patient was a woman 45 years of age, who had been treated without success for sclerosis of the uterus and hymorrhage and who had had an abdominal hysterectomy performed. The immediate has been also been also been also been also been the patient was considered to have recovered from the operation (eighteen days following) she was suddenly seized with acute abdominal pain accompaned with marked durrhera. The pulse became acculerated and the temperature did not fall below 35° The porture was that of typhoid fever but the symptoms became aggravated and the patient the symptoms became aggravated and the patient purpose.

Autopsy showed omental and intestinal adhesions which shit of purukin collections of fund from the free abdominal cavity. The last part of the small intestine and the excum were discolored and contained about fifteen perforations. These lay on the wall opposite the mesenteric attachment, the wall opposite the reference of the difference of the most of the perforation and on or ecupy. Propris patches

Microscopic examination showed the ulcertations to be secondary to a process of fatty degeneration, and that they were filled with micro-organisms of bacillary form. These bacilli also occupied the lumina of the blood vessels in the neighboring issues but in none of these places was there any throm

The authors were at a loss as to the cause of these lesions the absence of arterial thrombosis eliminated the hypothesis of thrombosis of the mesenteric The process was undoubtedly that of an acute diffuse enteritis, which could be likened neither to a case of sublimate poisoning or uremia, nor could it be due to an extra intestinal infection One should consider typhoid fever as a possibility, but the ulcerations did not occur on Peyer's patches and their form was transverse The authors arrived at the hypothesis of an infectious enteritis originating from the blood stream as the microbic embolisms of the neighboring blood vessels would seem to Whether the origin of this infection was from the operation or independent thereof this study does not permit one to say

Schmilinsky. Re-introduction of Bile and the Contents of High Fistulic of the Small Intestine Into the Human Economy Through the Stomach and the Colon (bber die Vernertung von Thetekalle und Dünndarmunhalt aus bohen Dünndermißstein im Haussnit, des Organismus) Zentralle

f Chir, 1912 xxxix, 1667 By Surg , Gynec & Obst

In a case of hour glass stomach with ulcer treated by resection and closure of duodenum and stomach with subsequent gastrojejunostomy, a panereatitis followed probably due to excessive canterization of the base of the ulcer which located in the pancreas An abscess followed which was evacuated Later pure bile in amounts of 800-1000 cc per day was discharged, due to occlusion of the duodenum below the pupilly through the inflammatory process and a giving way of the duodenal suture. I magazine of the patient was rapid and progressive. Schmilinsky re-introduced 400 cc of the collected bile into the stomach twice daily through a tube and succeeded in improving the nationt to such a degree that he was able to anastomose the duodenum with a loop of small intestine two months later and cure his patient

In a second case one of ileus an enterostomy had been performed. Conditions did not permit the use of a lower loop of bowel In consequence rapid emaciation soon followed this high intestinal fistula lour days later a Witzel fistula was made in the transverse colon a rubber tube introduced into this and the discharge from the other fistula after thorough trituration introduced into the colon by injection. The large bonel stood the injections well. The stools evacuated per rectum were of firm Corresponding to insufficient absorption the stools contained a greater amount of fat than usual. The condition of the patient improved at once so that the fistulæ could be closed after a few days. The author thinks that this method is more certain than nutrient enemata that introduction of the contents of high fistulæ of the small intestine may lead to irritation of the rectum, as this portion of the intestine is not accustomed to the strong action of the pancreatic ruice He suggests that if occasion demand a high enterostomy to make a colon fixtula at the same time, the condition of the patient permitting. He had the opportunity to do this in a patient a few days after finishing his paper Cholecystectomy with removal of a common duct stone and drainage of the hepatic duct had been performed Through a new incision a Witzel fistula of the jejunum was made and a tube introduced The patient receives daily 500 cc of the secreted bile through this tube She was much reduced before operation and is now in good con The patient in the first case would have succumbed without this feeding of bile The entire output of bile was evidently discharged through the duodenal openings, a loss but incompletely com pensated by ingestion of abundant liquid and solid E C. RIEBEL nourishment

Aaron: A Sign Indicative of Chronic Appendicatis, J. Am. M. Ass., 1913, lx 350 By Surg., Gynec & Obst.

Auron regards referred pain or distress induced by continuous pressure over McBurney's point as a most valuable diagnostic sign of chronic appendicts. In many cases of chronic appendicts with digestic symptoms he has induced referred pain or districts in the epigastrum, left hypochondrum districts in the epigastrum, left hypochondrum timous firm pressure or preceditarization by districts of the pressure of the

have fully recovered from their digestive trouble. The digestive symptoms were caused by impangement on the nerves, which reflezly induced a perversion in gastin, secretion. The appendix has a rich nerve connection from the superior mesentein plexus of the sympathetic with the cardiac, hepatic and Eastern Defenses.

L. G. Dwa.

Owen Appendicitis, a Plea for immediate Operation Lancet Lond, 1913 clarity, 411 By Surg, Cymec & Obst

The author says that appendicutes is different from most other acute diseases in this that one cannot tell exactly what is the state of affairs without making an incision and that no part of the body has caused so many surgical surprises as the appen The commonest surprise of all is the discovery of a perforated appendix when the symptoms have been slight and the operation has by good fortune been undertaken early. In discussing the so called quiet stage he thinks that no one can possibly tell whether in any individual case the symptoms are going to subside or rush forward with hurricane speed. He believes that the golden age in surgery will have begun to dawn when the family doctor the physician and the surgeon all agree that as soon as ever the diagnosis is made that an appendix is inflamed it should be removed and that if there is doubt about the diagnosis it should be settled by an exploratory incision The nublic should be enlightened and be made to understand that it is not the operation but the delay in performing it to which a fatal result should be generally attributed fie compares in a very instructive way an imaginary series of 200 cases, half of which were operated on and in the other half no operation was performed He reminds us that there may be a comparative absence of clinical signs in the presence of advanced and perilous disease in the appendix. He says an inflamed appendix is a shell with a lighted time fuse and though in any case it may happily fail to explode it is far safer to lift it out at once and drop it overboard DOVALD C BALFOUR

Green. Appendicitis During Childhood (Über Appendicitis im Kindesalter). Allg B ten med Zeil, 1913 Isin 13, Zentralbl f d ges, Chir u i Grenzgeb

Appendicitis is uncommon during the first two years of life and is more frequent after the fifth year. The lymphoid tissue in the appendix is not functionless in childhood Therefore the removal of a healthy appendix during an abdominal operation is not advisable. The causes of this disease during childhood are the same as those in the adults stenosis, foreign bodies, kinking, tuberculosis, typhoid, and worms The latter is a cause in children more frequently than is supposed Green found them in 31 per cent of his cases of appendicitis The symptoms commonly found are like those of the adult The unusual accompanying symptoms are cystitis, or melæna The latter was observed in a child 14 months old and could be traced to the marked congestion of the intestines The diagnosis of acute appendicitis in children is often most The course is usually a quick one and the mortality rises rapidly from the second to the sixth day In a differential diagnosis must be considered pneumonia or right sided pleurisy, acute gastritis intussusception intestinal obstruction, typhoid Henoch's purpura and disease of the right ovary The prognosis is very uncertain in children and depends on the virulence of the infection and the method of treatment In treatment each case In general all should be regarded individually acute cases which are seen within the first 48 hours should be operated immediately After 48 hours operation is advised only when the condition be comes progressively worse or in case of a perfora tion, abscesses should be opened immediately

Dobbettin Length of Incision and Abdominal Irrigation for Combating Paralysis of Intestine in Appendicitis-peritonitis (Schatt lange, Bauchydlung Bekampfung der Durmfash mung bie Appendicits Pentonitis) Deutstie Dei

< KHALTZ

Wchusche 1913 XXX 222

By Zentralbl (d ges Gynäk u Gebuttsh s d Grenzgeb

Dobbertin uses in all cases of acute intermediate

and peritonic appendicitis Riedel's undulating incision, the length of which he has reduced to 4-5 cm In early operations and in operations between attacks he considers an incision of 3-4 cm sufficient He warmly advocates the primary extirpation of the appendix also in cases with callosity or indura-In early operations the peritoneum is opened from the front 1e directly below the interstitual spaces of the muscles, in the intermedial stage, however the peritoneum is opened from behind penetrating backwards to the colon in order to avoid the free abdominal cavity The rule for the treatment of diffuse peritonitic appendicitis is abdominal irrigation from a small abdominal incision abdominal wall is lifted up on the median border with Kocher's retractor and under guidance of the left forefinger a glass tube (40 cm long, resembling a vaginal douche point, and perforated centrally at its end) is pushed forward into the small pelvis then subhepatically subphrenically and finally into the left hypochondrium and into the lumbar cavities Not less than 20 liter should be used for the

registion under a pressure of a height of at least 2 m. After the drainage, he places a small pouch tampon, after 24 to 48 hours this tampon is removed and the wound closed with secondary suture.

In fibrinous decapsulating peritonitis multiple incisions are necessary. In all cases greatest care

should be taken to avoid eventration

In peritonitic paralysis of the intestine an injection of 25 50 ccm glycerine into the cocum or a loop of the intestines located higher has given the very best results and was often life saving in desperate cases where all other remedies failed to incite peristalsis. In order to facilitate the injection in severe cases the author arranges the tampon in such manner as to allow the excum to be in front If no flatus has passed within forty eight hours after the operation in spite of adequate help if the ab domen swells if no peristalsis can be heard, if there is nausea and somiting, the author makes an injection of 25 ccm glycerine from a record syringe with a fine hollow needle through the carcal wall into the intestine and he has had the very best results with this method in the majority of cases

Tuffier Angloma of the Sigmoid (Anglome de 1 Sihaque) Bull et mem Soc de chir de Par, 1913 xxxx, 268 By Journal de Chirurgie

The author reports the case of a man of 31 years who seven years ago had a sudden intestinal hæmorrhage (a glass full of red blood) In the following days there were repeated hæmorrhages until the patient became profoundly anæmic The bleeding then stopped spontaneously and did not reappear for three months These hamorrhagic crises were repeated four to ten times yearly the man remaining quite well during the intervals. He was admitted twice to hospitals where he was treated as a case of pernicious anæmia with successive relapses entered the service of the author in September, 1011 Sigmoidoscopy showed a small tumor in the lower portion of the sigmoid The growth was the size of a small pea purplish in color and very slightly ulcerated It was situated twenty two cm above the anus On its surface were several very small clots After these had been swabbed off a nævuslike appearance was disclosed. There was no visible 002102 The growth was cauterized months later, the patient re entered the hospital in a very precarious condition due to renewal of the hæmorrhages At his request, the author performed lanarotomy and explored the intestinal tract without however, finding any alteration nor any tumor The spleen, which had been enlarged, proved to be of normal size The patient's condition became worse and a few days later he died

At autopsy, the only explanation of the hamornages found consisted of two angiomata of the sigmoid. These were bright red, pea sized, submutous nodules showing no trace of recent rupture of few hamorthoids were visible, but they were of small size and none appeared ulcerated. They was no ulceration or reason of the intestinal mucosa in the whole course of the small and large intestines. Two small submucous angiomata were found in the mouth, one on the lower lip at the right, and the other on the floor of the mouth. This case led the author to collect the rare similar instances of angiomata of the intestines recorded in the literature.

nata of the intestines recorded in the literature.

In structure these tumors are entirely similar to

other angiomata

Topographically, they are distributed more commonly in the small intestine, but rarely in the large They may be single, or multiple in an area of 20 centimeters to 2 meters, or generalized. They are often the site of a thrombus and sometimes pedun culated.

Clinically, their evolution may give tise to no symptoms whatsoever, their discovery occurring only as an incidental finding at autopsy following some other affection. Rarely they may cause obstruction. Their chief and only symptom is hemorhage, which may be of three grades. first, profuse,

second abundant, third, occult

It is evident that when these venous ectasis are situated in the jejunum or are generalized they are beyond our means of intervention, but when the clinical character of the hæmorrhages lead to the supposition that their site is relatively low down in the intestinal tract as in the colon or sigmoid, direct and repeated examination should be made, and if a small tumor of angiomatous appearance is found in the sigmoid its removal may lead to cessation of the hæmorrhages and thus save the patient's life Hartmann has observed two cases of angiomas of the digestive tract. In the first case, a woman 22 years old had had intestinal hæmorrhages These at first had been attributed to hæmorrhoids, but the history led to the suspicion of a different type of lesion In this case the blood preceded defecations while in hemorrhoids blood is passed after the stool Proctoscopy showed a small angioma which bled at the slightest touch It was situated in the ampulla just above the lowest valvular fold Cauterization with the galvano cautery was followed by healing

The second case was that of a patient who suffered from repeated hæmatemesis There were absolutely no other symptoms of ulcer of the stomach, no hyperchlorhydria no pain The repeated hæmorrhages at length led the surgeon to an exploratory operation When the stomach was drawn into view, it was observed that along the course of the branches of the arterial supply, there was a series of small red pea sized angiomas, which had all the characteristics It therefore seemed attributed to arterial angioma very probable that similar growths were present on the mucous surface, but in view of their multiplicity and the lack of knowledge as to their exact location their removal appeared impossible, or at least very dangerous The author, therefore, hmited himself to the ligation of the two branches of the gastric coronary artery Six and a half months after the operation, the patient reported that there had been no further hæmatemesis and that her general J DUMONT health was excellent.

Mayo Some of the Disputed Problems Associated with Surgery of the Large Intestine 1m J M Sc, 1913, cxlv, 157 By Surg, Gynec & Obst.

Because of the high fixation of the splenic flexure the contents in the first half of the large intestine are detained in the area of absorption. Beyond the splenic flexure there is but little absorption, the sigmoid like the urinary bladder, is a storage cham-The descending colon is usually empty, and for this reason is often supposed to be strictured, as shown in X ray pictures The recto-igmoid juncture is a peculiar mechanical arrangement which holds the feeal accumulation in the sigmoid. The rectum is normally empty, except during defection Material placed in the rectum is quickly carried to the head of the colon for absorption Tumors of the cæcum and ascending colon are often accompanied by metabolic changes 1e profound anæmia, etc., which is not true of tumors of the large intestine beyond the splenic flexure The terminal foot of the ilcum rises out of the pelvis and enters the cæcum obliquely not at right angles, and is held by a perstoneal fold of which "Lane's kink" is an exag The cæcum and ascending colon are functionally one organ, the cacum itself being only from 13/2 to 3 inches in length The carcum and ascending colon do not arrive at their normal posi tion until after birth and its peritoneal attachments, if exaggerated, produce the 'Jackson's veil" The transverse colon is 22 inches in length, and has 11 inches to travel from the hepatic to the splenic flexure Its support in the center is the movable stomach, and there must, therefore, he some degree of prolapse. The sigmoid varies greatly in size and position and its holding bands of peritoneum when they are pronounced, are often called "kinks" Bands developmental in origin, are often formed between the gall bladder and duodenum, between the pyloric end of the stomach and the posterior wall of the lesser cavity of the peritoneum Func tional disorders of the large intestine especially in the cæcum and ascending colon may disturb metabolism through absorption of deleterious products and produce conditions which are variously called intestinal putrefaction, intestinal stasis etc It is possible that mechanical conditions of develop mental origin have some effect in detaining infected remnants of food too long in the absorbing half of the colon and that the symptoms are due to the effect of toxic products on the controlling sympathetic gangha Credit is due Jackson Coffey, Lane, Martin Roysing and others for their work

Vidakovich Causes of Prolapse of the Rectum and the Influence of the Bladder and Intra-Abdominal Pressure on the Production of Same (4 vefublicosés okariol és a husyhdysag és basprés befolyásáról a végbéleloses létrejos ésére) Orross Heitalp, 1913, 1917, 79

By Zentralbl f d ges Chir u i Grenzgeb

The author regards a full bladder as a powerful protection against prolapse of the rectum. By filling

the bladder the small intestines which transmit the pressure of the abdominal muscles are lifted out of the pelvis and the fold of Douglas is raised. The rectum is pressed into the convexity of the sacrum and thus its convolutions are increased and finally the opening of the privis is closed by the distended bladder and the force of the pressure of the abdom inal muscles is dispersed in various directions. He can prove through direct manometrical measure ments that pressure from the abdominal muscles transmitted to the part of the rectum below the bladder is less when the bladder is full than when it is empty. He believes that in the beginning of the prolapse its increase can be avoided by advising the patients to empty their bladders only after defecation and to breathe through the open mouth during defecation Good prophalytic measures are defecation while lying with the feet hanging and especially in Mummery's stooping position, while the bladder is kept filled at the same time

Humphreys The Blind External And Fistula Internal J Surg. 1913, xxvi, 50

By Surg Gynec & Obst

The author states that the greater number of fistula cases seen by him have been operated from one to six times with resulting failure to cure and frequently with much damage to the sphincter muscles and that such cases are much more difficult to operate successfully than those upon whom no surgery has been performed. He further claims that a failure to cure means either that the process is tuberculous or that the operator failed to find and lay open all the tract with the internal opening He believes that a blind external fistula is frequently but a temporary condition which a complete fistula may mamiest and in support of this belief he cites 14 abscess cases which he opened and inject ed with methylene blue and hydrogen peroxide Iwo of these cases showed an internal opening Of the remaining 12 cases 3 healed and a cure resulted, 9 refused to heal and were injected once or twice weekly, all nine showing internal openings after one to six injections. In 2 of these the internal opening again closed and was again dimonstrated after one and two weeks by injection of staining solution Eight cases of blind external fistula were also cited, by injecting staining fluid once or twice a week all these revealed internal openings in from one to three weeks, in 2 of these cases systematic injections showed the internal opening closed after three weeks and open again after one and two weeks

He thinks that the greater number of ischiorectal abscesses originate in an infection through an abrasion or fissure in the anal canal and that the internal opening is established by the breaking down of thrombosed lymphatics, which may occur even after the abscess has been incised or has broken externally

He concludes that the larger number of so called blind external fistulæ are in reality complete fistulæ with the internal openings not patent and conse quently not found at time of operation. Also that no operation should be begin on a complete fistula unless we are certain that the internal opening is patent at the time it is done, and it is his custom when an internal opening is demonstrated to pass a ligature through the entire tract, bring it out through the annus, tie it loosely, and leave it until tready to operate

No operation should be attempted on a supposed blind external fistual until it has been under observation two to three weeks and injected twice a week with staining fluid. Most of these cases, when so managed, will reveal the true pathological internal opening—the key to the situation—and a cure may thus be effected in a larger percentage of these cases than of otherwise, managed

Humphreys Preserving the Sphincter in the Treatment of Fissure and Fistula in Ano. Am J Surg, 1913 xxvii 41 By Surg Gynec & Obst

The author discusses the cause of fissure and thinks its usual location explained by the anatomy of the parts

Casts of the anal canal are shown to demonstrate the existence of an anal pouch or cavity. He argues that the chief factor in the treatment of fissure is drainage. In support of this wew he reports cases successfully treated by mechanical apparates designed to drain the anal cavity without mission or for drainage in the anal cavity without mission of or drainage in the posturior commissione regardless of the location of the fissure. The mission begins in the interval between the sphincters and extends backward is to 15% inches gradually lessening in depth

wall as the property of the pr

Where the sphincter had to be cut in more than one place, or both sphincters cut the author resorted to a method of slowly cutting through the muscles with a ligature by drawing it to and fro three times a week, thus making a new channel for the ligature each time, into which it is tied snugly, but not tight enough to produce necrosis His object is to allow the first sphincter fibres cut through time to heal and become entrapped in the gradually advancing cicatrix before the more superficial fibres are separated There was no noticeable impairment of function in a few cases treated by this method In some difficult cases the silk bigature was threaded through the tract by washing it through with a weak solution of hydrogen peroxide injected from a small syringe

The author also describes a new operation, excusion without cutting the sphuncters, "butch he recommends in suitable cases where the internal opening is above the internal sphincter and where the ordinary incision or exission of the fixtulous tract would result in incontinence. It is abor recommended to the internal opening was very high it was first transferred to a lower livel by the ligature method previously described before employing the operation of

excision without cutting the sphincters Operation 1 slightly curved incision 21/4 to 3/2 inches long is made parallel to the external sphincter fibres with the external opening of the fistula about its centre. The incision is deepened and the fistulous tract dissected out on a probe which has been passed through it from within outward i.e. with the point of the probe projecting through the external opening while the handle remains in the rectum. The dissection is carried down to the wall of the gut. The probe is then removed and the outer end of the fistulous tract is ligated and steri lized. A second incision is then made at the edge of the anus between the mucous membrane and the sphincter muscles and the mucous membrane is further dissected up until the bottom of the first incision is reached, when the fistulous tract is drawn through into the new incision, the rectal mucosa is then still further dissected up as in the Whitehead operation, till enough mulous membrane has been drawn down to admit of suturing it to the skin edge after amoutation of a flap containing the internal fistulous opening and the fistulous tract The outer incision is drained with rubber tissue but is not sutured. Wounds are dressed with iodoform gauze and a tube placed in the rectum, outer dress ings are changed daily and drainage is removed after 24 to 48 hours Bowels are contined 7 to 10 days Results by this method perfect in three cases done

LIVER, PANCREAS, AND SPLEEN

Bogoras Implinitation of the Superior Mesenterly Voin Into the Inferior Vena Cava in Cirrhoris of the Liver (Cher die Limplianzung der Van mesentenca sup in die Vena cava inf bei Leber errhose) Russk Iracki, 1033, 201, 48 By Zentralbl (d. ges. Chr. u.) Grenzgeb

The author suggests an anatomoss between the suprior mesentern vein and the vena cava in circhous of the liver to overcome the stass of blood in the mesentern and splenic systems and to lead a part of the blood of this system directly into the vena cava. The author made this attempt in a patient who suffected from circhosis of the liver for three years. A diminution in the size of the splenic and the non accumulation of fluid in the abdominal cavity was noticed after the operation during a period of one month. Oliquria followed immediately after the operation but disappeared gradually

Lecéne: A Large Solitary Adenoma of the Liver (Un cas d'adenome solitaire volumineux du foie) Ret d Gynte e d Chir abdom, 1912, 112, 525 By Journal de Chirurgie

The case was that of a moman of trenty years who was admitted to the hospital with gastne symptoms (womting after meals and in the morn ong, abundant repastars, ergastire pain, points of tenderness along the right costal margin). There was no jaunder on alcohole; stools: There was marked emacation. A well defined tumor mass was made out which was plainly in the liver It was dull to percussion and yielding the liver was enlarged in size. Hyddaid cyst was sus-

pected The author performed a median laparotomy gravish tumor was found protruding from the surface of the liver, and about the size of two fists Aspiration yielded only blood. The point of puncture bled freely A cunciform piece of tissue was removed which showed that the tumor was greenish color and solid A fine catgut suture was used for hamastasis of the wound. The rest of the liver appeared normal The section of the specimen removed showed that the tumor was composed of henric cells arranged in irregular columns, and at certain points there was enormous intertrahecular capillary ectasia which gave an angiomatous appear ance to the section The hepatic cells of the tumor appeared quite normal, some of them were intrafiltrated with biliary pigment. There were no-The tumor was a where any biliary channels henatic adenoms with certain points of angiomatous transformation

Three months later Lecene had the opportunuty of performing an autopsy on this woman whose death had been due to murler. The her registed izon grams. It appeared normal except that at its center there was a large round elastic tumor which caused a budging of the surface. It was situated about the union of the two lobes. This tumor was definitely encaysulated and could be enucleated It was roughly lobulated and histologically was of the same character as the specimen removed during

laparotom Lecene has found thrue other cases in the litera ture of solitary angioma of the liver diagnosed during the patient's life and successfully operated (Von Bergmann Groube Tuholske) They were benign tumors (the typical hepatomas of Sabourin) as opposed to the epitheliomas atypical hepatomas or malignant adenoma of the Germans The author believes that these solitary tumors situated in an otherwise normal liver, are due to malformations dating back to the period of embryonic development of the hepatic glands As long as they are encapsulated these adenomas are benign though they may lead by their growth to hepatic insufficiency or may serve as the point of origin for a malignant neoplasm Hence when possible they should be removed. The operation is facilitated by their encapsulation

GEORGES LABRY

ĴAPFE

Gordinier and Sawyer: Primary Adenomata of the Liver Simulating Hanot's Hypertrophic Liver Cirrhosis. Am J W Sc 1913 cth 258 By Surg , Gynec & Obst

Adenomata of the liver are rare, the authors being able to collect but 4; cases of this condition from the interature, to of which were solitary and 28 multiple (0f the latter 28 there were 21 associated with atrophic cutrhosis of Lunner, and the remaining 7 had no mention of an cirrhosis whatever. These primary cases were accidental discoveries at autorsy and no reference wast made to any 5 mptoms which they may have induced. In 25 of the 41 cases the third was the composed of modified liver parenchy ma, and in 19 the structure was that of agglomerations of large bule ducts. Of these 19, there were 4 multiple and 15 solitary tumors occurring in the liver.

A very common fate of adenomata of the liver is their malignant transformation into carcinomata with infiltration of the portal vessels and metastases to various tissues

Nearly all cases of multiple adenomata are associated with cirrhosis and thrombosis of the portal vein and consequently a high percentage of these tumors are marked by vomiting of blood and by

The case reported by the authors was in a male, aged 31. His first symptoms were weakness loss of appetite pain dragging in abdomen and taundice. The symptom complex presented during the course of the disease was (1) A long continuous saundice fluctuating in intensity, (2) a gradual but progressive liver enlargement until it became of enormous size with special prominence of the left lobe, (3) definite though moderate enlargement of the spleen, (4) absence of acholic stools until within a few days of death, (3) absence of ascites ham orrhages from mucous surfaces or enlargement of the abdominal or ha morrhoidal veins, (6) presence of attacks of abdominal pain with febrile reaction, (7) abundant bile stained urine (8) cholæmia and death

Autopsy revealed a typical adenoma of liver with no tendency to malignant transformation and no metastases. The multiple nodules of adenoma replaced the liver tissue to such an extent that only microscopically could any normal liver tissue be found.

The interest in this case centers around the facts

That it presented the symptom complex of Hanot's hypertrophic biliary cirthosis

2 That the study of the liver does not bear out the generally accepted view that multiple adenomata are always secondary to and in compensation for liver cirrhosis

3. That it shows the importance of recognizing the fact that symptoms identical with those produced by either the atrophic or the hypertrophic form of cirrhosis may take their origin from multiple adenomata R W McNeatr Courvoisier: Gall-stone Statistics from Basle (Fine Basler Gallensteinstatistik) Cor-bl f schweiz Arzle, 1913, xlvm, 161

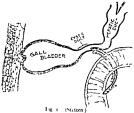
By Zentralbl I d ges Chir u t Grenzgeb

Of 16,205 bodies examined at post mortem, the author found gall stones in 2.1 per cent of the cases. There were in 8.050 mm 5.9 per cent and in 7,375 mm 15.15 per cent. His figures also show that gall stones were found to be very rare from 10.0 years of age. From then on there is a gradual rise in percentage of cases up to 70 years. After 70 years sees become comparatively rare again. Government of the work of

Stetten Angulation of the Junction of the Hepatic and Common Ducts after Cholecystostomy, Simulating Common Duct Obstruction Ann Surg, Phila 1913, ivu, 181 By Surg Gynec & Obst

The author has noticed on several occasions that. after a comparatively simple cholecystostomy for gall stones when it was obvious that the bile passages were completely cleared of calcult at the operation, either the biliary fistula persisted or if it closed symptoms of biliary obstruction (jaundice and colic) developed A second operation would show that the choledochus was entirely free of stones that a sound could be passed into the duodenum after choledochotomy and that after cholecystectomy or even freeing the gall bladder from the abdominal wall closing it and dropping it back into the ab domen the patient would make an uneventful The author recently had a case in which accurate observations were made and the cause determined

His case was a female aged 10 Diagnosis Subsiding cholecystitis, calculi in gall-bladder Oberation Longitudinal incision in right rectus muscle Gall bladder large and slightly congested, but walls not thickened. Slightly viscid bile as pirated and bladder opened five medium size stones being removed Ducts carefully palpated and found A cholecystostomy was performed by inverting the opened fundus of the gall bladder over a dramage tube by means of a Lembert purse string suture The bladder was then fixed to the parietal peritoneum. The bladder was neither shrunken nor retracted, and the fixation to the abdominal wall was accomplished without the shightest tension. A gauze drain was placed below the bladder and the wound closed The patient reacted well, and there was free drainage from the tube One week later the tube and drain were removed and tampon inserted. The biliary discharge promptly stopped There was a mucopurulent discharge from the abdominal wound week later patient had frequent attacks of severe colicky pains, evident icterus and acholic stools



One month later a second operation was performed through the old scar No stones felt in the gall bladder or ducts A kinking of the junction of the hepaticus and choledochus was found. The angle formed was less than 45 degrees The gall bladder was removed. The stump of the cystic duct was split upward into the hepatic and down into the common duct Though there was a valve like formation at the junction of the two ducts a large probe was eredy inserted into the duodenum and also up into the hepatic duct which was dilated No sign of calculus I tube was inserted into the hepatic duct for drainage and sutured into place One gauze wick was led to the opening in the ducts and another to the bed of gall bladder Wound closed except for dramage The patient made a prompt and uneventful recovery and was discharged cured one month liter At the angulation a valve was formed so that the

flow of bile into the intestine, was almost improssible. This accounts for the pain and jumdice, when the bilary fistuals was closed and the tendency toward persistence of the fistual after it was reopened. There must have been decided contraction of the gall biadder after the inst operation and this angulation. The condition was promptly cured by cholecystectomy, which permitted the angle in the junction of the dust to straighten out.

junction of the ducts to straighten out.

The author reviews some of the literature bearing.

on this point and says that this is a good argument against the employment of cholecystostomy and for the use of cholecystectomy

I DW ARD L CORNELL

Lamerls Hepato-Cholangio-Enterostomy Zen tralbl f Chir 1912, xxxix 1605 By Surg , Gynec & Obst

Lameris reports the following case: A man 44 years of age had marked jundice for four months He was operated on under the diagnosis of obstruction of the common duct by tumor or stone. The

liver was found to be enlarged and firmer than normal The gall bladder was enlarged and thinwalled Adhesions did not exist. The hepatic duct was markedly diluted up to its junction with the cystic duct. At this point a tumor was found originating from the cystic duct and encroaching upon the hepatic and common duct. The gall bladder contained clear mucus. The cystic duct was occluded. Tumor and gall bladder were extirnated leading to a defect in the hepatic duet of 6 x 4 mm The hepatic duct was drained Micro scopically the tumor proved to be adenocarcinoms The patient was dismissed with a fistula and in good general condition Seven months later he was again operated on for closure of the fistula The liver surface was normal the capsule somewhat thickened It the transverse besure a tumor of hen egg size was found. It was located partly within the liver and partly within the contracted hepatico-duodenal ligament. Its removal left a short stump of the hepatic and common ducts not permitting reunion or anastomosis with the gut I piece mersuring aty x 6 cm was removed from the margin of the right hepitic lobe. Hamostasis was effected by cautery An opening was made in a loop of jejunum about 40 cm below the duodeno jejunal junction and this united with the liver wound by two rows of sutures. The hepatic duct stump was drained During the next few days there was discharge of bile along the drainage tube. Three weeks later the drain was removed. Mer six weeks the wound had closed the joundice disappeared and stools were of normal color During the following three months the patient was able to attend to his work end of that time he returned complaining of loss of weight. The liver was enlarged and pulpible. He died two months later of right sided pleuro pneu lutopsy showed several abscesses in both lobes of the liver I pon opening the anastomosed portion of the jejunum about ten openings were found from which bile issued on pressure scopical examination showed that these openings corresponded with ducts lined with cylindrical epithelium and penetrating into the liver substance This shows that with a total defect of the main bile ducts new bile ducts were formed after uniting liver and gut, that these ducts functionated eight months after operation and that hepato-enterostomy may be successful in rare cases L C RIEBEL

Ewald A Case of Tumor of the Spleen with Fatal Hærnorrhage (Em Fall von Milatumor mit todlicher Blutung) tilg med Zental et 1013 lxxu 48 By Zentralbi f d ges Chir u i Greazgeb

Enabl observed a large spleme tumor in a man 38 years old. The patient was never seek and had hid dyspess; for only the was never seek and had but dyspess; for only the was not not be not patient was normal. There was no reterus, no blood in the stomach or intesting visiting the patient was normal than the was not never the wasternam normal than the wasternam normal before the wasternam normal

of the sphem was much smaller. The patient direct in collapse. The autopsy showed, aside from a large sphem (18×7×0), a partial thromboss of the spheme branch of the portal ven near the blue spheme branch of the portal ven near the blue were other thrombus in canalized. There were other thrombus on the walls of the branches of the portal artery. Macroscopically, and microscopically, that stomach and intestinal mucosa is entirely intact, as well as the pulp of the sphem. The cause of the thromboss and the hamorrhage from the stomach remains unexplained, since lues cannot be stomach remains unexplained, since lues cannot be might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the so called parench might be considered in the group of the solution.

Utrobin: Banti's Disease Cured by Splenectomy (Fin Fall von Heilung des Morbus Banti nach Splenectomie) Russki Fralch, 1913 211, 92

By Zentralbl f d ges Chir u 1 Grenzgeb

The author reports the case of a patient who has add Banti's disease for three years. A splenectomy was performed in the second stage of the disease. After removal of the spleen the percentage of hemoglobin rose from 63 per cent to 76 per cent The number of red cells rose up to 5,750,000 Instead of 10 years of the second of 10 years of the second of 10 years of the second of 10 years of the years of 10 years of

SURGERY OF THE EXTREMITIES

DISEASES OF THE BONES, JOINTS, ETC.

Bier: Observations on Bone Regeneration Arch f klin Chir 1912 c, 90 B; Surg , Gynec & Obst.

In 1807 Bier removed the entire diaphysis of the humerus together with the periosteum for a sarcoma The defect was replaced by a portion of the tibia including both periostcum and marrow. In 1912 the condition of the arm was as follows The upper arm showed shortening of 112 cm. The function was normal The contour of the bone was irregular and a knuckle could be felt at the lower end scar and outline of the tibia were normal and its anterior edge was sharp The X ray picture of the right humerus showed that the new bone was 2 to 3 mm smaller than the left A central medullary cavity was plainly visible The connecting line of the transplant with the remnants of old bone was plainly visible at either end. The surface of the new bone was irregular but had the general form of a normal humerus The X-ray of the tibia was normal seen from in front I rom the side there was seen to be a slight diminution in size

This case shows that the transplant even without the assistance of the periosteum of the old bone has formed a complete long bone with a central marrow cavity In the last 5 years Bier has transplanted large pieces of the tibia in 16 cases If a large piece were removed aseptically even with the attached periosteum and the cavity was allowed to fill with blood over which the skin was sutured tightly, a complete regeneration of the tibia with its normal contour regularly occurred But if the wound was tamponed or blood escaped through the skin suture or the skin was pressed tightly into the cavity by a compressing bandage, regeneration never took place in its entirety. In it of the 16 cases there was complete regeneration of the bone The blood seemed to act as a scaffolding for the bone to grow into The cutaneous scar did not grow together with the scar in any of the cases The regeneration took place surprisingly fast, in one case being com

plete within a month. In contradistinction to this, Ber found that bone cavities left after scraping out a central sarroma or tuberculous bone regenerated much more slowly and the new bone never assumed the original form of the old bone. Usually, there was massive periosteal new bone formation. These observations show that the medulla is of great importance in the regeneration as the small narrow spaces are usually destroyed by scraping out the bone and because regeneration in total of the cavity left by the transplant occurs even when the periosteum also is transplanted.

The transplantation of a piece of the tibia should include periosteum and medully. A straight or curved incision is made over the anterior border of the tibia the fascia is split and the muscles held apart. The bone is chiseled or sawn above and below to the medulla and split off with the chisel Bier uses an electric saw The cavity is allowed to fill with blood and the skin is sutured tightly over the defect so as to prevent the escape of blood asentic bandage is applied which is left undisturbed for 2 or 3 weeks in order to prevent secondary infec-Bier corroborates Lexer's observation that transplantation of the marrow leads to inflammators phenomena and fever oftentimes. Bier believes that this aseptic inflammation protects against bacterial invasion LRWIN P ZEISLER

Allen · Acute Osteomyelitis and Its Complications Am J Surg 1913 xxvii 50 Bv Surg Gynec & Obst

As preliminary to a consideration of his subject, the author calls attention to certain factors in the embryology and histology of bones that influence the pathology, and course of ostomy-clitic infections. Surgically we are witally interested in the epiphyseal corrulage or growth line in long bones. It is well understood that any interference with the epiphyseal cartilage in the young before the bone has attained its full length will interfere with the proper growth of that bone. It is an interesting fact also that this

cartilage serves as a barrier to osteomy elitic infection which always starts in the shaft of the bone, as well as a protection to the shaft from infections, such as tuberculosis, which may originate in the epiphysis

He emphasizes the point that although the macrosopical conception of a long bone is one of hardness and immutability with little power of intercommunication between one portion and another, in reality it has a complete system of intercommunicating canals, and has great power of chalping both its vice and shape, it can hypertrophy or atrephy under systematic milencers as do other tissues of the body. As a vast majority of infections are in the long boneperhaps because they bear the greatest strain and are more subject to tunians we are check concerned to the control of the control of the control of the control to the control of the contro

The author classifies acute infections of bones histologically as periositis, ostettis and osteomyelitis, bacteriologically, as staphylococcic streptococcic

pneumococcie typhoidal and syphilitic and chrical

He states that the direct value of an acute infectious obteomichis is always by an infection by pyogenic bacteria. The bone may be infected in two ways, ectogenous from traums and endogenous or hematogenic. He states that in some cases the osteomichitic focus seems to be the primary focus

of the discase Allen cites that the symptoms differ with the viru lence of the infecting organism the place of its lodg ment and the resistance of the individual primary focus of hæmatogenous infection is always in the bone marrow in the diaphy sis of the long bone and usually in that spongs portion lying next to the epiphysis which Kocher has termed the metaphysis Chinically this is an important point as tubercular infections always begin in the epiphy sis The kinds of bone infections are similar to those of other con nective tissue inflammations in that we have phileg mons and localized abscesses only differing in their course because of the specialized structure of bone The walling off is slower as bone is less vascular and the necrosis is more extensive as the bone is less rend and the circulation through it is slow the process is arrested we have the same picture here as in the soft tissues extens on in the marrow is checked by granulation, in the cortex by a thicken ing and hardening. The infecting bacteria once lodged in the marrow may produce a necro-is ex tending over a very considerable area of a long bone before marked infiltration with leucocytes can

occur The author's opening remarks on treatment are short, omerce and to the point as it is to opening statement as follows: Once the dangeous is made the only treatment as surgical in the conditional reaction, putting the part and intense on cutotional reaction, for the proper apple callion of the Berr bandage may cause the who'e aftar to each de". If also discusses several cases to prove his points.

In the severe infections the systematic invasion presents a picture of chill, high temperature rapid pulse, intense leucocytosis, severe pain and marked swelling. Here action and that as soon as possible, is imperative. If seen early, incision of the penosteurs and opening the bone for drainage of the marrow may save the bore from extensive destruction and check the constitutional invasion If seen later, after the pus has formed underneath the periosteum lifting it away from the bone to a greater or less extent and possibly having passed into the surrounding soft tissues accompanied by a general and projound septicemia, the operation must be performed as a life saving procedure with ample draininge beneath the periosteum and exits at the lowest and best angle. We must always open the bone into the marrow as quickly as possible, drain supernotal phlermons and abscesses thoroughly and give the patient vigorous supportive treatment ARTECE B Erstace

Groves Multiple Myelomata, with Numerous Spontaneous Fractures and Albumosuria 444 Surg Phila 1913 has 193

By Sarr Gyper & Obst

The author reports a very interesting case in which the Bence Jones book was found and considered the causal factor. Some very good Vira photographs accompant the article. 4 thort review is given of cases in which fracture of the bones plaved an important port and the point is noted that while the disease is more frequent in new worner present the raspont of fracture. The case the author reports is unique in many respects. The length or history is it versus at present the patient is in good leading the disease of the patient is in good leading the disease of the potential of the present of large conspicuous bont tumors is in marked contrast to the havory of other cases reported.

In brief the case reported is as follows. Male to years of are clerk, complains of multiple spontaneous fractures and swellings of the bones. Twenty years ago was a perfect Sandow 1000 he had an attack of gastnits with yoming of food (but not blood) and severe pain. There was much loss of weight However he completely recovered in health and strength. In May 1001 he suffered from rheumatic pains and finally fell breaking the left tibia. It took nine months to consolidate no other pathology presenting to indicate the fracture was of an exceptional nature. In January, 1002 he hat the left lower jaw on window while opening it, numbers followed but not much pain. Later a fleshy growth appeared and the raw became thickened with cherry like outerowiths which were ab-orbed or burst discharging thick dark blood and strings mucus. The tumor increased in size till 1000 but since then it has decidedly diminished and the fleshs covering had entirely disappeared. In 1904 he suffered from severe "muscular theoriansm and large bruses came out

on the thigh without any apparent cause. He became less sure on his feet February, 1904, following months of severe pain in left thigh the left femur broke under muscular exertion, it healed in nine weeks In April, 1904, while convalescing and moving to an armchair, the right femur broke It was kept in splints ten weeks and was well by the end of the year February, 1905 while walking with crutches, the left femur broke again in the old place, healing taking place in three weeks without setting. Three days later the right forearm was fractured in a similar manner February 25 while reading a book in bed the left elbow broke causing great pain, and a tumor developed to the present size in about a week. February 1905, while lying in bed and drawing his leg under him the left femur was fractured In 1008 the base of the second right metacarnal became swollen

At present the nationt is a very nervous man with an unhealthy, sallow complexion. He is unable to walk because of the deformities in his arms and legs and further he is naturally very anxious lest he should make a misstep and have a fresh fracture The left raw is thickened, forming a smooth tumor and viewed from the inside it is deeply excavated the surface of the cavity being covered by scar All the teeth on that side have been lost The right forcarm is the seat of a well defined tumor 8 x 4 cm, rather above the middle of the shaft. extending as far as the head of the radius Little rotation is left. The elbow of the left forearm is the seat of a large, globular tumor 10 cm in diameter occupying the upper end of the ulna The radius is completely dislocated from the humerus. The Support is freely movable but its range is only oo Supparation is impossible. The hands show the swelling mentioned before. The head of the right femur as well as the neck is occupied by a large vacuolated tumor. Other deformities are also present. The same condition is present in the left femur and in addition the whole of the shaft is occupied with large vacuoles. The left lower leg is much deformed, being bent backwards at a right angle, with a large globular tumor at this angle There is a tumor of the left calcaneum, 12 x 7 cm which is vacuolated. The right tibia is not de formed, but the whole bone is thickened. The sixth and eighth ribs show well defined tumors on X-ray

Unne analysis showed an average exection of izoot to gook cally with 2 per cent precipitable protein (63 gm per 24 hours). The purified protein is not soluble in distilled water but is readyly so in presence of a trace of sodium carbonate. With a ratee of and it appears at a low temperature and ratee of and it appears at a low temperature and pus cells also. He is in better health now. I have a some and it is not appear to the protein the blood hormal, but albumosuars attit continues.

Groves says the case seems to prove certain points conclusively. The course is indicative of an infective disease of a chronic chiracter which has worn itself out. While the tumors resemble sar coma, chineally they are not EDWARD L CORSELL.

Mauclaire and Dubois Sporottichosis of the Humerus and Tibla (Sporotnehose de l'humerus et du tibia) Bull et mem Soc de chir de Par, 1013 xxxii. 275 B) Journal de Chritigie

By Journal de Chirurgie 1013 XXXIV, 275 The patient was a woman of 55 years, she had been treated for 4 years for an ulceration of the left cheek This had been diagnosed epithelioma Cauterization had reduced the ulceration to the size of a dime. For 6 months she had felt general pains in all her bones which later localized into the humerus and internal malleolus Finally she noticed a tumor mass at the lower and external part of the The patient entered the hospital There was evidence of fluctuation at the site of the tumor mass There was no enlargement of the axillary leolus which gave no fluctuation Mauciaire had an A ray taken of the humerus An abscess was shown about the shaft of the humerus The rest of the bones of the upper extremity were normal. The ankle was not radiographed

ankle was not radiographed my the patient showed no splus A dagenoses of a spoushfur infection of the splus A dagenoses of a spoushfur infection of the hote was made. Lyon mixing the branchad aboxess thick pos was found underneath the traceps muscle. The finger was put directly into the center of the aboxes. An aboxess cavity the size of a small nut with few small sequestra were present. There were no rice bodies and there was no presence of caseation. The muscle was miftirated. An incission was made over the reddened the state of the middle of the splus of

In spite of the incisions the suppuration continued The examination of the pus (made by Dubois) at the end of 15 days, showed sporothrix Beurmanni J Dimont

Daniel Septic Infection Versus Chronic Intestinal Stasis, the Legality of Heo-Colostomy for Arthritis Chancel J., 1913, xh. 305 By Surg., Gynec & Obst

Daniel takes issue with Lane regarding treatment of arthritis by ileo colostomy He calls attention to the close casual connection of oral sensis with the gastro intestinal lesion and attributes what Lane calls autointoxication to gastro intestinal sepsis which arises from infection without the existence of stasis The cæcum is the earliest and most severely affected part of the intestine since in the excum food is meant to be delayed, thoroughly churned up and mixed with digestive juices Owing to this delay (not stagnation) the mucosa of the cæcum is subjected to continuous and prolonged insult from bacteria present in the food. If the bacteria are numerous and if reinforced by virulent germs from suppurative processes in the upper digestive tract and nasopharynx, then the cæcal mucosa is damaged, lymphangitis results, the glands in the ileo cacal angle are infected peritonitis occurs over the cacum, appendix and lymph glands and 514

important physiological function
All that Lane claims for mechanical stasis is much
more rationally explained by the theory of intestinal
scosis L. G. Dwan

Packard: The Mechanical Trentment of Hip Disease. Am J Orth Surg., 1013 x, 320

By Surg. Gynec & Obst
The relative value of fixation, traction and

weight bearing are discussed with reference to the

The indications for trustment are to diminish the activity of the process and to prevent deform ty. It is evident that the primary focus of the disease is very frequently found in the activation Such cass require different treatment from those beginning in the head of the femure, and also many cases if recognized and treated eatly may recover

with functional use of the joint The plan of treatment adopted is as follows In the early stages of the disease traction is applied with the patient recumbent for a sufficient length of time to relieve sensitiveness and deformity traction brace is now applied with thoracic band adjusted in such a way as to make about 20 degrees abiliction This brace is used for about two or three years, or as long as there seems a possibility of getting motion - even longer in many cases of bilateral disease where even slight motion is so important At this stage, if rigidity persists and a tendency to adduction and flexion is present then a plaster of Paris spica is used of sufficient length to prevent deformity and allow weight bearing hoping to get ankylosis in a good position If at the end of about two years everything is favorable for motion a convalescent splint that allows motion and prevents weight bearing is used

Waelder: Tear of I igamentum Pateli v Proprium and Its Diagnosis (fur kennins der zerretssung des Lagamentum patelle proprium) Med Cor Ri d warltemb år.l Landerer, 1913 [vxv.) 60

The injury occurred in a man forty years old who fell on his knee while his leg was sharply flexed. The pascenent on which he fell was of coarse crushed stone. The dargnoss was made by the fact that the patient could not extend his leg by the Front born, and by the fact that the patient could not extend his leg by the Front was a support of the patient could not extend his leg by the Front was higher than the patient was higher than the patient was higher than the patient was supported by the fact that the patient was higher than the patient was not a support of the patient was not a sup

than normal. An operation was performed on the following day and the legamentum patellar proprium was found to be torn near the patellar, the capsule of the joint was torn from its insertions on the tibia. The harms to the form its insertions on the tibia. The harms was cleared out and the capsular tissue and to the second of the properties of the prop

Franch

Jaffe Treating Leg Ulcers with Dry Air (Die Be handlung der Ukus cruns mit getrockneter Luft) Zische i der i Foribild 1911 x 23 By Zentralbi i d ges Chir u i Grenzgeb

Fifteen grave cases of traumatic and varices leg ulter were treated with dry air. This was generated with the Sector apparatus. The air was of room temperatur. Of the fifteen, two ulters were hashed completely while the rest showed im proximent. In all the subjective symptoms were deathfully reduced.

FRACTURES AND DISLOCATIONS

Keppler Hemorrhage in Displaced Fractures (Dichlung Stellung schlecht Stehender Frikturen) Deutsch Ziehr f Chir 1914 (xxi 137

By Zentralb! f d ges Chir u i Grenzgeb

In his operative technique for fractures of the long bones the author overcomes the great harm done by the use of sutures placed deep in the tissues or by temporary bony union by placing the fractured ends in place so that the irregular ends of the fragments are interlocked more perfectly most tavorable time for replacing the fractured ends by this method is the beginning of the second week after the fracture A constructor is put on to prevent bleeding and it is done under general anges-Complicated injuries and macerations of the soft tissues do not permit of the use of this \ splint dressing is put on After three or four weeks the part is treated with hot air, and passive motion is instituted. The author treated 20 cases of fracture of the forearm and 11 of the humerus liv this method with good results. It failed in a case of a suprecondular fracture of the femur and humerus and it does not insure safety enough in case of intracapsular fractures. This method is only prictuable when the nonsurrical method does not promise good functional result BERCEMANN

Mondor Plantar Fechymosis in Fracture of the Os Calels (I echymose plantaires dans les frictures du cilcaneum) La Presse Med 2012, xx, 2082 By Journal de Chicurgie

The classical ecchymosis in fracture of the os calcis is of the bimilleolar type. The plantar

ecchymosis has been recently described by Westphal Mondor has observed a number of cases and the following are the characteristics described by him

In three out of four cases the findings were constant. In one case he saw the ecchymosis 2 hours after the accident. In two others he saw the cases 21 hours after the accident.

The ecchymosis was found in the plantar arch in

sum of the foot in any of the cases

The extent was variable. In two cases the ecchymosis extended in all directions with poorly defined outline. In two other cases the ecchymosis was more sharply defined and the size of a 5 franc

In each case there co existed a dorsal ecchymosis underneath the malleol. The lateral margins of the

foot were never ecchymosed

In one case, there was an ecchymosis of 2 cm in length on the plantar surface of the four outer toes. Thiery holds this sign as pathognomonic of fracture

of the metatarsal bones

The plantar ecchymosis in 2 cases was so distinct that we could diagnose a fracture of the oscales by this one sign. The other signs would make one think rather of a sprain of the tibio tarsal or

astragalo calcaneus ligaments
After studying the above cases Mondor arrived

at the following conclusions

r Ecchymosis in fracture of the os calcis is not always beneath the malleoli and retarded in appear ance. It may appear at once and be found on the

plantar surface

2 Ecchymosis on the plantar surface of the digits, said to be pathognomonic for fracture of the metatarsals, may exist in fracture of the os calcis

I Disnoyt

Thomas The Reduction of Old Unreduced Dislocations of the Shoulders Ann Surg Phila, 1913 Ivn 217 By Surg, Gynec & Obst

The best treatment for old unreduced dislocations of the shoulder is still undecided but there is a general tendency toward carber operative inter ference Nearly all dislocations become practically irreducible after three months and they may become very difficult of reduction after as many weeks The increasing tendency toward operative reduction is due in part to the betterment of opera tive technique in general and in part to the great difficulty met with in attempting to reduce many The average functional result is better however, after non operative than after operative reduction One is apt to underestimate the diffi culties which are encountered in these cases since the displacement is not great only the rounded head of the humerus being anterior to the glenoid margin (in the subcoracoid variety) The particular obstacle to reduction has never been successfully demonstrated Kocher after studying dislocations on the cadaver, came to the conclusion that the

capsular tear, produced by the escaping head closed about the neck and after cicatrization occurred prevented reduction. He noted, however, in a post mortem dissection, that he "found no capsule tear anywhere," but "a closed fibrous tissue covering passed over the head everywhere " Kocher produced dislocations on the cadaver, after making a longitudinal slit in the lowest part of the cansule. by abducting the arm and pressing the head downward The author finds by cadaver dissection that a dislocation does not occur through such a slit but that the abducting force produces a capsular tear at an angle to the opening Such an incision probably has little effect on the size and location of the transverse tear which usually occurs at the humeral or elenoid attachment. Such a faceration could hardly become constricted about the neck of the humerus in a recent dislocation. It will be seen in a recent dislocation that neither the anterior nor the posterior portions of the capsule can prevent reduction even after cicatrization. The undamaged portions of the capsule at the upper and lower limits of the tear are drawn inward and forward by the head, and the direction of the fibers is changed from an almost vertical to a transverse one being rolled somewhat into a cord. It is probable that these parts of the capsule form the chief resistance to reduction after cicatrization and that they must always be torn to a greater or lesser degree before reduction of an old fracture can be accomplished The safest and best method of reduction is by traction on the humerus at a right angle with the trunk with direct pressure on the head toward the socket The danger of injury to the axillary vessels and nerves has undoubtedly been exaggerated The circumilex nerve and the posterior circumilex vessels are the only important ones lying in direct contact with the capsule. No damage was done to the vessels or nerves in any of the six cases reduced by this method. The thick subscapularis muscle hes between the vessels and the humeral head. The objection to the Kocher method of reduction is that force sufficient for reduction cannot always be made without fracturing the humerus. In the abduction method this is not the case in fact one case which was complicated by a fracture of the lower third of the humerus was reduced after eight weeks' dura

Tollowing is the method of reduction. under either anrasthesia the natient is placed on blanker on the floor. The Allis apparatus is applied, by which traction is mad only on the humerus. The operator sits on the floor with one stockinged foot against the axillery bodier of the scapical the other against the upper border. Traction is made at a right angle to the trunk. An assistant haceks alongsade, the patient and pushes the head toward the socket, when traction has moved the head downward far enough. Traction may be made by another assistant by means of a folded sheet passing under the head of the humetus. When the head seems to have passed outward far enough, the first assistant pulls the

elbow toward the body The effect of fractures occurring about the head has not been fully studied The commonest fracture is the one of the greater tuberosity Many of these can only be reduced by oneration.

In some cases, fragments of the head obstruct or fill the glanoid cavity. Six dislocations were successfully treated by the method here described One of the successful cases was of eight months' standing TAMES F CHURCHILL

SURGERY OF THE BONES, JOINTS, ETC

Walker: Operative Treatment of Fractures A. 1 St J M , 1913, xm, 64

By Surg , Gyner & Obst. The author contrasts the immediate and the

remote results of the treatment of fractures by the open and closed methods

In following up 100 cases of fracture of the femur at Bellevue Hospital at was found that although the majority of patients were able to return to work the largest number continued to suffer some disability. Most of these cases were first treated by Buck's extension and then by application of a cast Better results have since been obtained by the open tre itment, and failures with this method are not due to arong conception of the broad principle under lying it, but to errors oftechnique

The author cites a number of fractures which in his opinion always indicate the opin method of A series of good cuts illustrating fractures before and after operative treatment are

introduced together with case reports

He concludes that fractures should be considered as wounds whose cut surfaces should be brought together and held by some mechanical means The operative treatment is indicated in all dis placements where the deformity cannot otherwise be corrected, in involvement of joints with loose or unmanageable fragments and in cases of vicious union with malposition which interfere with F G DYAS function

Pellissler. Treatment of Oblique Fractures of the Leg with the Lambret Apparatus (Dutratement des fractures obliques de junhe par l'appareil de Lambret) Thèse d'doct Lille, 1912 os

By Journal de Chirurgie

In July, 1910, A Broca presented to the Surgical Society at Paris an apparatus designed by Lambret (Lille) for the reduction, coaptation and muntenance of oblique fractures of the leg This apparatus based upon the methods of Steinmann, consists es sentially in the following Two steel wires pierce the ends of the fractured bones These wires are held apart by an apparatus and gradually drawn by trac tion with a cogwheel arrangement and two twisting handles The results obtained with the primitive apparatus

of Lambret were unsatisfactory in so far as it did not correct the angular or lateral displacement Quenu

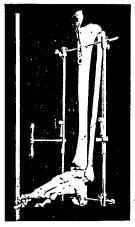


Fig. 1 (Pell sser.)

and Mathieu in April 1911 also showed a modifica tion of the Lambret instrument to the Surgical Since then Lambret has modified his instrument so that he can correct the lateral deformative The fragments are placed in a horizontal groove in which lies the wire. By means of a screw the wires can be fixed to the fragments in the desired position.

Pellissier describes the three instruments con structed by Collin and that of Kirschner which had been out some time before that of Lambret but not known in France in 1010. He gave his technique based upon 11 of his own cases o were of fractures of the lower third of the leg 2 were fractures of the malleon all were oblique Of these 11 cases, 6 were cured without any shortening one with \$2 cm shortening and a were still under treatment

In order to study the process of repair of the bones with the wire suturing Pellissier made a series of experiments upon dogs and rabbits and examined the tissues histologically at different intervals

The following are his conclusions (4) Chrical

The application of wires as with the Lambret apput as requires a local annesthesia only. The wires being placed away from the seat of fracture render less dangerous the risk of infection, especially in commuted fractures with injury to soft parts and in the presence of himationas. The advantages of the instrument lie in the case of its application, the good position in which holds the fragments, the precedent extension, the total correction of lateral displacements, the freedom left to the fractured limb and its articulation, which can be easily examined massared and mobilized.

The apparatus can be used in all cases of oblique fractures of the leg, with much displacement hard to reduce, or where the fragments injure the skin, in fractures above the malleol, in complicated fractures hard to reduce, fractures in old people and in those to whom a general anasthetic cannot be given, in irreducible luxation of the foot (Quenu), in all cases where the ordinary methods are inefficient.

(B) Conclusions drawn from experimental research. The passing of the wire causes an loss necrosis in the soft tasses or bone. The traction on the wire causes a light atrophy of the osseous issue next to the wire. The drill carries a few fine fragments of bone into the medullary carity, but these are very well borne and serve to stimulate callus formation. At the end of to days there is practically no opening left, so that the possibility of infection is grettly dimmished.

E. Jennback

Nespor Refractures of the Patella (Butrag zur Kasunstir der Refrakturen der Patella) II ien med II chnicht, 1913 1 un, 451 Hy Zentralbi f d ges Chir u 1 Grenzgeb

Nespor reports three cases of refracturing of the patella which occurred in consequence of imsignificant trauma such as extension of the leg and gluding in one case the fragments were united by two strong silk sutures and a flap of the tendon of the quadriness muscle turned downward and inserted into the perosteum of the lower fragment. In the two other cases Nespor used Spectinehauser silk wire, No 5 and No 9 1 and three cases complete recovery with good function resulted. CERTER

Bradford Fixation in the Treatment of Hip Disease. Am J Orth Surg., 1913 x 354 By Surg Gynec & Obst

In previously published articles the author has demonstrated the advantages to be derived from the systematic use of traction in the treatment of hip disease particularly in the prevention of deformity, and especially the deformity of shorten may from subliaration widening of the acetabulism and absorption of the head. The author claims that the best clinical test of the efficacy of treatment is the critical test of the efficacy of treatment is the critical to which in the terminal result to the control of the critical substitution of the critical substitution is presented the salies of a traction spinit as a means of fastion.

By observation upon prizents and demostrations upon models it is shown that, owing to the mobility of the spine and the compressibility of the abdomen thorax, and covered pelvis it is in possible to fix absolutely the hip joints by any appliances extending upward in the attempt to hold the thorax and downward along the thigh and leg The long spice is impurfect in furnishing hip fixation, and this is also true of the Thomas hip splint

As a taut pull on the head and tail of a wriggling snake will check its movement better than tying it to a stick, so adequate traction with pelvic points of counter traction can be made to fix the hip joint without circular bands around the thorax or pelvis

The commonly used traction splinits are of value, but often are unsitisfactory in the amount of pull furnished the inadequite points of counter pull, and in the complicated nature of the appliance. An abduction traction appliance used for several years at the Boston Childrich's Hospital has been demonstrated to furnish in addition to traction, more fixation than is given by a long plaster spica. The appliance is similar to the well known Thomas knee, splint with an addition which furnishes perineal resistance on both sides of the perineum and a traction attachment at the bottom

Morton The Results of Excision of the Hip-Joint in 37 Cases of Suppurating Tuberculous Disease Brit M J 1913 1 331 By Surg Gynec & Obst

The author reports 37 cases in which the opera tion of excision of the hip joint was performed In all his cases there was evidence of suppuration. some with and some without sinuses. Most of the cases were young children some were over 12 a few were adults, and one case operated on in 1912 was He has had no death from the operation. He uses the anterior incision starting just below the antero superior spine and running downward passing between the sartorius and the tensor varing femons and then between the rectus and gluteus minimus The neck is divided with the Adams saw and the soft parts around it cut with the scissors He removes all the tuberculous tissue possible his first 24 cases he removed distinct sequestra in 10. and mentions this as one of the strongest arguments for this radical operation. The cavity is scraped and flushed with 1 in 10 bimodide solution and carbolized iodoform is applied to the wall. All cases were drained, but in most the discharge ceased in 2 months. He examined all the cases possible operated on in the last 12 years and com municated with all possible who were not examined In nearly all cases flexion to a right angle was possible Lateral movements were not so good The longer after the operation the greater was the tendency for the trochanter to ride high on the dorsum ilu The shortening in the cases he examined ranged from 2 to 21/2 inches but in one case o years after operation there was 4 inches shortening. There was marked instability of the joint. In spite of this shortening and instability of the joint the author feels that this should be the operation of choice rather than the mere emptying of the puts sac IIe says he doubts if the flail joint is worse than the ankylosed portion which might be obtained by putting the stump of the femur into the actiabulum and holding at there until anAlysias resulted. He reports 37 cases in more or less detail. Two patients duel of tuberculous meningities 3 months after the operation, and one died 332 years later of tuber culous meningities. M S HEVERSON

Hertzler: Quadriceps Transplantation in Paralysis. J Wo St M 1ss, 1013 17, 253 By Surg, Gynec & Obst

The patient a girl aged 15 had acute antenopolomy-clits three years prevously resulting not be disuse of both legs and the enfeebled use of the upper extremites, because of two years spent in both the Ances were flexed to an angle of 15 degrees, the quadricarp and both the reput the property of the pr

A modification of Krause's operation was insti-

tuted, i. e. a transplantation of the hamstrings to take the place of the quadreneys, a fairly long incresson is made over the becres the muscle loosened as far as the insertion of its short head the tendon severed from its attachment in the fluids, and the muscle body of the vastus externus from the femur, thus gring a more direct pail for this muscle, the semi tendinosus semimentranous and gracilis tree fred in like minner and made to perforate the body of the vastus internus, the sarrooms is severed through the vastus internus, the sarrooms is severed through the vastus internus, the sarroom as is extended through the vastus internus, the sarroom as is extended through and the legal backed on a posteror splint.

and the teg piaces of a posterior splitting and semimembranous were transplainted, and since the vastus internus was markedly atrophied it was not perforated by the semimembranouss, but the author thinks this was an error in technique, for it placed the museck at a distinct mechanical disad vintage. However the result was very estalisatory, lesions.

Hoffa Booker and others have demonstrated the utility of this operation in quadriceps paralysis

R B COFIELD

ORTHOPEDIC SURGERY

DISEASES AND DEFORMITIES OF THE SPINE
Kaneko Congenital Lateral Curvature of the

Spine Im J Orth Surg 1913, x 396
By Surg , Gynec & Obst

Kancho states that the deformity as here presented is one of the rarcet so far as experience goes and as the facts are shown by available hierature Mery, Roy, and Geschen have reported such similar cases in the «eventeenth century, but little notice has been taken of these reports. From the next century, when Fletchmann Roducturs, when the rest century, when Fletchmann Roducturs as and Guéria, problem to the subtional Guéria, problem to consider the deformity as the reported cases were not taken from living subjects, but from skeletons. They therefore only attracted the attention of the anatomists.

One skiagram one photograph of the child and one of the skelcton are contained in this paper with the report of two cases, one of which is from the skelcton and a review of the etiology and pathology, symptoms diagnosis and treatment

He behaves that the causes which bring about such deformities are various, and enumerates 1 Malformations of vertebra the bone itself or

1 Malformations of Verteria at the bost was attitudation (a) Deformities of the vertebra, (b) numerical variations in the spine, (c) with spina binds, (d) adhering of the transverse process of the fifth lumbar vertebra with the crest of the illum adherence between the upper dorsal vertebræ with

a congenitally elevated scapula (e) the result of the amniotic pressure in the later months of intra uterine life.

2 The relation of scolosis to other deformities (a) Those occurring with congenital dislocation of the hip (b) cases caused by paresis of paralyses of spinal muscles (c) cases with cervical ribs (d) cases with fertal rickets

HENRY BASCON TROUSE

Dhérissart The Operative Indication in Fractures of the Spine (Les indications opératores dans les fractures du rachs) These de doct Pans, 1913 Jan By Journal de Chirutgie

The author revews the present ideas on the question of intervention in fractures of the spine, including different works on the subject and, the report of Auvray and Senect in particular. The vitcle ends with eighteen case reports say of which have been published. A resume of the article follows.

CASE 13 Man 27 years of age, fell two stories Fracture of the twelfth dorsal and first lumbar vertebræ with deformit3, complete paraplegia with anasthesia, retention of the urine and feces Reflexes abolished

Laminectomy The cord was found to be crushed, death followed with a temperature of 43° C and pulse 110. Autopsy showed a complete destruction of the body of the first lumbar vetrabra:

CASE 14 A young man, 15 years of age, fell 6 meters All the signs of a complete lesion of the cord were present Laminectomy was performed on the third day The cord was found to be divided, results were negative, and death followed five months later

CASE I A Mrn, 50 years of age, was reashed by a locomotive. He remained one month in the hospital for fracture of the clavicle and numerous bruses. Later he returned to the hospital because of pain in the back. He had no difficulty in walk in the pain of the control of the co

CASE 16 A man, 32 years of age fell ten meters A complete paralpega with arrishesia was present Incontinence and impotency only followed second antly Signs of fracture of the eleventh and twelfth dorsal vertebræ were present Lammertomy was performed six weeks after the accident T were meanings and cord were intact. The wound was closed At the end of the sixth week volume unnation reappeared followed by the recovery of potency, of mo ement and of sensition.

CASE 17 A woman 34 years old met with an automobile accident. The first and second lumbar vertebræ were fractured. Signs of complete section of the cord were present. Laminectomy was performed. A fragment of the bony arch of the first lumbar vertebræ had pierced the posterior surface of the cord. Blood clots were removed, no improvement, death occurred six months after.

CASE 18 A man 40 years of age fell from a roof Complete motor paralysis was present. At the end of five weeks laminectomy was performed. The cord was markedly compressed. Results voluntary unration on the same night later limited movement in the lower extremities, but patient could not walk without crutches. J I. ROWLERGER

Jones Vertebral Osteo-Arthropathy 1m J Orth Surg, 1913 x, 354 By Surg, Gynec & Obst

Jones has observed two cases of vertebral osteo afforosthy (Charcot's doesase of the spine) during and considers that of the many manifestations, and considers that of the many manifestations of the consideration of the cases of the spine of the cases of the spine of the cases of the cases of the cases of the cases of the cases of the cases of the cases of the cases of the present time but you authentic cases reported the present time but you authentic cases reported

He reviews the literature carefully and thor oughly quoting extensively many interesting facts regarding this disease and clearly reporting his own cases one of which is included

CASE 2 Mf X Y, age 33 married gave a negative venereal history. He had always been a strong healthy man up to 17 years ago At that time, while rading a horse in a running race he was thrown from his mount, striking the ground on his unconscious for several hours, but was not several was up and about his work again. Two accident he was up and about his work again. Two years following the accident he began to complain

of attacks of dizziness, but he never lost consciousness—Girdle and lightning pains appeared and ataxii manifested itself, together with some digestive disturbance

Three years ago an ulcer developed on the sole of the foot, over the head of the first metatarsal. The ulcer did not heal and discharged for several months, finally the great toe was amputated

months, many the girea fee was amputated About this same time he first noticed a deformity at the lower portion of the spine. This "mass" was not pyunful and the skin over it was not reddened He also noticed that his back was becoming curved. This deformity of the back, increased and walking became more difficult. No incontinence, of feeces, but there was a partial loss of control of the bladder.

Examination A man weighing 112 pounds Walks with a marked ataxic guit. There is distinct dizzness upon binding forward and swaying from side to side is very noticeable when standing with the eyes closed. There is no nystagmus, and there is no pupillary response to light.

Referes The right and left three jerks are both absent as are the tendo achillis rifleres. The cremasture reflex is present but delayed. There is no ankle clonus. The plantar reflexes are absent Tactile sensations are dimminshed in both lower extremities. The pain sense is greatly lowered but the pressure sense is fairly accurate.

There is a marked angular kyphosis of the third and fourth humbar vertebra and a distinct scolosis of the spine in the dorsal and humbar region. This terral deviation of the spine is to the felt. Opposite the eleventh dorsal vertebra and extending down to the fourth lumbar on the left side of the column or the fourth lumbar on the left side of the column or segment of a spine side of the column or sign of abaces. The right and left hips and both knees and ankles are normal, and no other arthropathic lessons are present

There is a partial loss of control of the bladder but no incontinence of the rectum. The Wasser mann reaction is positive

The radiogram shows a marked scoliosis of the lower four lumbar vertebre. The fourth lumbar segment is seen to be displaced from the third lumbar vertebra, and there is marked roughening and absorption of portions of the articular surfaces with large irregular, hypertrophic masses at the upper and lateral margins of the fourth lumbar segment.

In conclusion he states that (1) the verticities involvement occurs in tabetic subjects (2) in both cases a positive Wassermann reaction was obtained, although no spibilitic history was chetted, (3) the arthropathy was limited to the verticitie column, (4) in both instances confirmatory radiograms were secured Herver Bascort Thomas

Miller Prenatal Growth of the Human Spinal Cord. J Compar Neurol, 1913, xxni, 39 By Surg, Gynec & Obst

The object of this work is to throw light upon the absolute and relative prenatal growth of the cord axa whole and of its various regions and parts. The investigation was based upon the results obtained from five human embryos, as follows: an extending the first week, a 17 mm one, suth week, as 13 mm, eighth week, of 30 mm, eith week, and 150 mm, five months. The measurements were from coon to tumb.

The methods of preparation of the embrans and procedures for magnification and measuring are given The upper level of the cord is assumed to be where the first section shows filaments of the first mur of spinal nerves. The length of a segment is determined by taking all sections between the upper most point of attachment of a nerve to the cord and the corresponding point of the next pair of nerves candal to the first. The exact line dividing the gear from the white matter is often indistinct. In the younger embryos a horizontal line, drawn from the small recess in the boundary zone of the gray matter to the nearest point of the central canal arbitrarily separates the anterior and posterior horns lateral horn where present is included with the anterior. The white matter is divided into anterior lateral, and posterior columns. The line of emer gence of the fascicles of the nerve roots separates the The dorso lateral anterior and lateral columns sulcus at the attachment of the posterior roots divides the posterior and lateral columns

In the 11 mm embryo indications of the cervical enlargement appear. This cord in general tapers to the caudal extremity. In the 31 mm embryo the lumbar enlargement is definitely shown though it may be present at 17 mm. In the older cords both cervical and lumbar enlargements are very promi nent. The actual rate of absolute growth of the cord is much more rapid during the early prenatal months than during the later periods. The cervical region forms approximately 37 per cent of the whole cord in the 11 mm embryo and decreases to 28 per cent in the five month fortus. This compares with 16 per cent and 31 per cent of the whole in the child and adult respectively. In the thoracic region there is a gradual increase from 32 per cent in the 22 mm embryo to 41 per cent in the mid fortal stage com paring with 45 per cent in the child and 50 per cent in the adult. The lumbo sacral region of the cord increases from 11 per cent in the 11 mm embryo to a maximum of 38 per cent at 31 mm In the mid firtal period there is a decrease to si per cent com paring with 18 per cent in both child and adult This decrease in relative size which occurred from the second month of prenatal life and extends into the post natal period is associated with the shortening of the cord in the vertebral canal The decrease is most marked in the sacral region of the cord It appears that the thoracic region appears to grow at the expense of the curvical region up to about the second month of prenatal life and thereafter at the expense of the lumbo sacral region

The gray matter constitutes about 18 per cent of the whole cord in the 11 mm cmbryo increasing in the 65 mm and decreasing then so that in the child it forms 27 per cent and in the adult less thin 20 per cent. In the central and the lumbo steral region, the gray matter is relatively greater in amount than in the thoracic. In the 11 mm embryo the antenor horn is three times as great as the posterior Later the ratio approaches that found in the adult.

The white matter increases from 13 per cent in the 11 mm specimen to 46 per cent of the cord in the five month specimen comparing with 73 per cent in the child and 80 per cent in the adult. The white matter increases relatively in different regions as the condiana whole.

The spendyma form martly so per cent of the untre nord in the it mm undryo. This is olded by a rapid decrease so that he the fifth month these form only o 5 per cent of the whole. This relied decrease is ascompanied by a decrease in absolute stee from the 12 mm spectime. With the receiption of a slight dilution at the extremities the canal is fully uniform in ciliber in the earliest stages but from 13 mm onward it is more constructed in the horacin region. Will Buttue.

Fishing Experiences in Spinal Surgery, Observations upon 60 Laminectomies for Spinal Disease Surg Gyar & Ohn 1911 XI 121 By Surg Gyare & Ohn

This is a report of 60 primary and 10 secondary imministratives performed by the author—22 time for tumor o for section of posterior roots, 4 for inflammations beer disease 5 for old fracture of the spine 2 for syringomicila: 1 for intramediuliars syst i for ancurson of posterior spinal vessels and 16 for various other affections. The author districts that there is no reason that the size of the s

The late versus the early symptoms of spinal tumor ric considered with long strass of fluid above a spinal tumor symptoms may occur which would make one suspect a higher level "conducty degenerations may in rare instances cause a shifting unward of the level of sensors and motor's symptoms.

The danger from the escape of cerebrospinal fluid when the dura is opened is small and the author has never seen serious symptoms crused thereby

ther some temarks upon the bladder deviate americans the market author calls attaction to a marked abdominal distention which the other follows immeretomy in the middrest report. The follows a discussion of the technical features of the operation and remarks of the vertical calls of the confidence of the vertical column after complice laminectomy. Reguling this surgual aspects of spinal decompressions and the vertical column after complice laminectomy.

sion, the author feels that the conclusion is justified that the opening of the spinal canal may and often does have a profound effect upon the spinal cord, and may act beneficially upon some diseases whose nature is a yet unknown.

Extreme conservatism is indicated in recent fracture of the spine but there are many old fractures, with narrowing of the spinal canal from new bone formation or angulation of the cord from vertebral dislocation, which can be very much benefited by operation

There is no more satisfactory operation than the removal of an extramedullary spinal tumor. The danger of the operation is small. Intramedullary tumors are to be removed in two stages by the author's "extrusion" method.

MALFORMATIONS AND DEFORMITIES

Carvallo. Megalodactylitis (Mégalodactylie) Ret de med e hyg pract 1912 i, 383 By Journal de Chiruteie

A new case is described of what with Caubet we have designated under the name of 'hallomegale' in order to distinguish it from congenital hypertro play of the digits (macrodartylists or megalodacty litis). The author, who believes his case to be original does not seem to have made a very serious bibliographic research, since other writers have been able to find 2:3 smill ar observations.

The case which he reports is that of a child 8 years old, who had, since birth a hypertrophy of the second and third toes of the right foot. As this condition interfered considerably with walking (al though there was no pain) an operation was decided upon The two toes were twice as long as the others They formed a single mass on the dorsal surface of which rudimentary nails were present 1 metarsal phalangeal disarticulation was performed Exammation of the specimen showed the skin to be thick and hard, the nails rudimentary and the bone hypertrophic The deeper structures were composed of cartilaginous tissues The author does not speak of any plantar fat although examination of the picture accompanying the article would seem to show that it was present SALVA MERCANS

Roth Bow-legs in Small Children Practitioner 1913 xc 431 By Surg Gynec & Obst

The article deals only with the rachitic outward bowing of the tibin and fibility of small children Roth divides the cases climically into the mild and severe types. The treatment of the mild forms consists in the application to the inner side of the leg of padded spinits extending from the knee joint to the bottom of the shoe. This spinit is firmly bandaged to the leg and worm during the day. This treatment should be kept up until the leg is straight, the period being usually 1 to 12 months.

In the severe cases the author straightens the leg by breaking it over a suitable fulcrum by manual force The apparatus consists in a table low enough so that the operator may apply force vertically down. On the table is a firm pillow upon which the patient lies and the "orthopedic wedge" over which the leg is broken The type of wedge is most important The author recommends Krohne and Sesemann pattern with broad base and rounded apex covered with India rubber The outer side of the leg is placed on this block at the exact center of the curve. The operator grasps the leg with one hand below and one above the site and gradually exerts more and more force in a vertical direction until the bones break. The fibula usually breaks first, followed later by a second snap with correction of the deformity which shows that the tibia has broken. The leg is then held in corrected but not overcorrected position by two lateral splints as described in the treatment of milder cases splints are worn for six weeks, the child being allowed to walk at the end of four weeks rachitic diet is carned out during both types of DEFOREST P WILLIAMS treatment

Le Breton Congenital Absence of the Fibula Am J Orth Surg , 1913, x 408 By Surg , Gynec & Obst

Le Breton reports two typical cases of congential absence of the fibula which resemble each other There were absence of the fibula, some tarsal bones, and some toes with their metatarsals, shortening and bowing of the tipha absence of the lower epiph rays of the tibba, and evenue of the some of the report of the control of the control of the control of the control of the control of the control of the control of the control of the control of the companying knock-knee

Horwitz Weak Feet in Children. Interst M J. 1913 xx 149 By Surg , Gynec & Obst

Little stress should be laid upon the low arch as a symptom of the first importance in diagnosing a case of flat foot. The foot deviates from the normal in shape function, and value. In the young there are the strength of

Intoening considered by parents a grave discountly, is most cases a beneficial condition. In cases of knock knee it is an unconscious attempt on the part of the child to correct the extreme eversion of the feet. This is noted in the separation of the great toe from the rest of the foot. This is a characteristic difference between a flut foot due to the control of

knee and destroy what compensation had been attituned. In all cases of intocing it would be use to extamine the knees. Flat-feet in combination with knock knees should be corrected, as this will also tend to re establish the line of gravity and improve the knock knees. In bowlegs the flat foot should be corrected with caution, as this will easily extend the condition. The feet should not be greater the knee condition. The feet should not be pensated foot, either an intoeing or an outlooning, should not be interfered with

During adolescence two types of weak feet are seen, one in the male and the other in the female They are due to the general disturbances arising at this period, mainly to increased vascularity in the bones. The increased superimposed weight and heightened bodily activity weaken the softened tarsal bones In the male the large bony foot with scant muscle development is seen, in the female, the small, flabby, shapeless foot Both types are weak and out of proportion to the body weight. In the treatment, development of the musculature should be our main object and we should not be satisfied with merely correcting the deformity mon custom of giving plates is injurious, as this merely acts as a splint and prevents development Pads built in the shoe measured to accurately fill M G SELLIC the arch are of great value

Bankart On the Treatment of Club-Foot in Early Childhood. Clinical J 1913 xh 282 By Surg , Gynec & Obst

Bankart considers that in infancy and early child hood congenital club foot may be converted into one almost indistinguishable from normal The results in neglected cases cannot be compared with what might have been obtained by treatment in infancy, which is always possible masmuch as practically every case is seen at or soon after birth by a physician He describes the pathologic anatomy of congenital club foot in order that the principles upon which the treatment are founded may be more readily understood Bankhart's method of treatment is by tenotomy, manipulation and fixation of the foot in the overcorrected position He does not believe that a club foot is necessarily cured even when in a corrected position for there is a tendency to relapse as the bones of the foot are altered in shape to conform to the deformity Therefore, careful orthopedic after treatment is essential for a period of several years or more so that the bones may adapt themselves to the new position Radical operations are reserved for neg lected cases in which other means have failed, the removal of bone approximately corrects the attitude of the foot, but there always remains some part of the displacement untouched In the true sense of the word the deformity is not corrected but effects a compromise by providing a more or less stiff foot in a corrected attitude, moreover careful orthopedic after treatment is as essential as with any other CHARLES M JACOBS method

Stern. Spontaneous Gangrene and Allied Conditions in Orthopedic Surgery Am J Orth Surg., 1913 x 381 By Surg., Gynec & Obst.

Spontaneous grugene, Raynaud's disease, erythomolaliga, a torytaness and intermittent claudication are allierd outliers and play in important live in outlier disease. The unique cause of these conditions has not as yet been established. The author briefly reviews the five theories of the etology. (i) Chronic spinal disease, (2) vasionator trophoneurous, (2) localized arterno-sclerosis (4) primary thrombosis with candization and downward extension of the process, (5) ascending thrombo anguits and perianguits of the arternes and veins.

Besides the usual symptoms of pain, mustle camp localized asphyax coldness loss of arteral pube etc, the author describes the occurrence of paniful discrete dark red or blush papules not the hands feet arms and legs in certain of these cases. The papules appear in crops and last only for a few days, disappearing suddenly. At times the papules become the sext of small areas of superficial gangrene and in diagnosis this condition may become very puzzling.

The progress of the disease is not uniform in all cases in any given case it is usually not continuously progressive. The final outcome may be gangene, with amputation or death. Many forms of the disease which in the past were thought never to lead to gangene such as erythrometalgus, intermittent claudeation etc., are not now so re-muttent claudeation.

garded
The diagnosis is difficult in the early stages. The
persistence of pain along the chief arterial trunks
the cold claiminy cyanotic extremities the loss of
the activatal pulse and the presence of the transient,
deep colored painful papules, or cold discolored
particles of skin art, the leading symptoms

The differentiation from flat foot is very important. Many of the cases have a flat foot and very often been under treatment for same. Lovelt makes it the rule to examine the dorsalis pedia and posttibul arrenes in all cases of resistant." flat foot readers asys. The symptoms of static flat foot come from the use of the foot. When the patient remains off the foot the symptoms vanish where this is not the case an examination of the circulation should be made."

The prognosis is grave as treatment is not dways successful. Absolute rest, bed for at least six months combined with Cushing a hyperarmia used wince daily is the most successful form of treatment. Care must be taken not to perform minor surgical operations on such feet as these are sometimes followed by gangriene.

Stern reports 114 cases, of which 7 had marked flat feet and had been referred to the orthopedist for treatment for same. Only five of these cases were seen by the general surgeon, and that, late in the course of the disease, for the purpose of amputa-

SURGERY OF THE NERVOUS SYSTEM

Leriche Three Cases of Radicotomy for Tabetic Gastric Crises (Trois radicotomies pour crises gastriques du tabes), and Elongation of the Solar Plexus for Tabetic Gastric Crises (Élon gation du plexus solaire pour crises gastriques tabe By Journal de Chirurgie

In these two reports the author gives the history of two tabetics recently operated for gastric crises The first case was that of a woman 26 years old who was suffering with very violent gastric crises, which Prof Pick had been unable to reheve by any of the usual therapeutic methods. Lenche sectioned the fifth, sixth, seventh, eighth and minth posterior dorsal roots extradurally (Gulcke's method) post-operative course was uncomplicated nationt at first experienced great rollef, but at the end of three weeks when she wished to resume her life as a prostitute the pain reappeared. On the whole however the results were thoroughly satis factory up to the end of the fourth month that time, the patient exhibited marked paroxysmal nhenomena (abdominal pain oppression marked tachycardia), which gave the impression of a solar crises. These symptoms seemed to indicate that the patient was suffering from peripheral sympathetic neuritis Accordingly, at the end of the sixth month Leriche performed the operation

of stretching the solar plexus In his second report, this case is mentioned to show that this operation is not as dangerous as has been claimed. It has been performed four times

at Lyons with no fatal results The second case was that of a tabetic who had been blind for 12 years Since 1005 she had had persistent gastric intestinal and rectal crises which had led to the formation of a morphin habit On June 24 1912 Leriche performed an extradural section of the eighth ninth tenth eleventh and twelfth posterior roots In spite of the employment of Gulcke's method cicatrization was rather slow. and for a few days there was a slight discharge of cerebrospinal fluid. For the first month the result appeared very satisfactory. The patient stated that she had not felt so well in five years But during the second month the intestinal crises reappeared. In addition the patient was suffering with a markedly prolapsed left kidney. In order to complete the result already obtained, the twelfth intercostal and the abdomino genital nerves were avulsed At the same time fixation of the Lidney was performed. After a period of relief the patient's condition became worse, and at the end of the third month she herself demanded reoperation time Leriche sectioned the fourth, fifth, sixth and seventh posterior roots. The operation was very difficult on account of the presence of numerous bands of meningeal adhesions, the earlier operations having left the dura mater very adherent

The patient died of hæmatorrhachis the following night

The specimen obtained at the autopsy enabled the author to make a very exact comparison of the results obtained by each of the two varieties of radicotomy At the end of this double report Leriche discusses the criticisms which have been directed against surgical intervention in tabetic crises and in particular against radicotomy. In his personal series of nine cases the mortality was 33 per cent There appears to be no doubt as to the value of the operation Unfortunately, as in all operations for neuralgia, definite relief is not always obtained after the first operation, and often repeated operations are necessary. Whenever therefore the visceral crises appear to be due to a peripheral neuritis the indications seem to begin by treatment of the solar plexus, and to reserve operation on the roots for those cases which from the start are evidently radicular in origin or those in which the pains have reappeared after operation on the solar plexus G COTTE

Landbein. The Treatment of Sciatica with Epidural Injections (Beitrag zur Behandlung der Ischias mit epiduralen Injektionen) Deutsche med Wehnschr, 1913 XXXIX 20 By Zentralbl I d ges Chir u i Grenzgeb

Like Lawen Langbein used a i per cent novocaine bicarbonate solution (sodium bicarbonate o 25, sodium chlorate o 5, novocaine 1 o, distilled water ad 100 0) It was injected into the hiatus sacralis. The latter is not always easy to find The patient assumes a sitting posture and the injection is made as slowly as possible The symptoms disappear in 15 to 20 minutes Twelve patients received such injections and seven of them were cured and have remained in perfect health. Before making the injection it is advisable to treat patient for fourteen days in the usual manner with antineuraleics

A Recurrent Neuroblastoma of the Scapular Region. J Im If 4ss 1013 lx 337 By Surg , Gynec & Obst

Symmers describes a recurrent neuroblastoma in a man 44 years of age The tumor was enormous in size and occupied the concavity of the right scapula and the corresponding axilla, necessitating amputation at the shoulder joint. Histologically the tumor was composed of undifferentiated nerve cells or neuroblasts provided with delicate fibrils, the cells being arranged diffusely, or in the form of rosettes, around tangled masses of fibrillated or homogeneous substance staining pinkish with eosin In commenting upon thirteen closely related cases, most of which were recorded under the mistaken diagnosis of sarcoma, Symmers states that nine occurred in children ranging from stillborn to nine years of age, and that in all of them the origin was

determined in the suprarenal capsule, where nests of neuroblasts are not infrequently to be found, even in normal circumstances. In children the tumor gives rise to two sets of symptoms. In one group the growth is attended by secondary exophthalmos, ecchymosis of the lids and neoplismic infiltration of the calvarium and regional lymph nodes, the other by rapidly increasing distention of the abilimen due to infiltration of the liver and unattended by ascites or joundice. In five cases, including the one noted by Symmets, the tumor occurred in adults. but the chuical manifestations were bigrare and do not lend themselves to classification

Behrend: A Case of Solitary Paralysis of the Suprascupular Nerve Due to Trauma (I in Fall von isoherter traumatischer lahmung des Versus Supraclaviculans) Berl blin Heknicke 1913, 1 243 By Centralbl f d ges Chir u i Grenigeb

Behrend has already published 26 cases of an identical nature This case was that of a blacksmith who received a moderately blunt blow from behind. on his shoulder. As a result the supra and infra spinous muscles gradually underwent complete atrophy. The patient experienced a gradual and increasing difficulty in raising the arm and rotating

it outward. In some of his cases, Behrend describes a habitual subjustion of the shoulder joint. When the function of the arm is scriously disturbed a plas tic operation may prove useful. For this purpose a neighboring nerve trunk from the cervical plexus can be utilized or a muscular flap can be transplanted from the trapezius or the latissimus dorsi Meyer

Ingebrietzen Studies of Deceneration and Regeneration of Axis Cylinders in Vitro J I sp Med , 1913 xvit 182 By Surg Cynec & Obel

Preliminary results of experiments show that brains of chick embrsos of cats six weeks old, of rabbits two months old and of dogs three weeks old when cultivated in vitro develop long filtments which must be considered as true axis extinders Similar structures develop from spinal ganglia of rabbits seven months old and of rabbits two months old. When severed from their origin these threads undergo degenerative changes, which do not appear after nine hours but which are seen after twents hours and continue until in the course of the fol lowing two days, the thread degenerates completely After twenty hours the development of new axis extenders from the central part of the cut fibres is observed. Jones F CHURCHILL

DISEASES AND SURGERY OF

Harrichausen - Autovaccination for Furunculosis In Nurslings (Autorgennation der Saughngefür

unbulenc) Therap Monatschr , 1913, XXVII 100 By Zentralbi I d ges Gynal u Geburtsh s d Grenzgeb

In several cases of furunculosis in infants good results were obtained by the use of autovaccine The preparation of autovaccine is so simple that it is within the means of the smallest laboratory. This treatment is to be recommended in every case of in fantile furunculosis in hospitals. In general practice the use of manufactured vaccine must suffice which does not completely equal the autoraceines in the HOLSTE action

Hertzler The Principles of the Technique of Skin Grufting Inlest M J 1014 XX, 145

Hertzler traces the minute histological changes that occur during the process of growth of grafted skin, and on this basis he discusses the proper

By Surg Giner & Obel

IIII. SKIN AND APPENDAGES

technique of Ain grafting burthermore he devoted a part of his study to the area to be grafted and shows that on histological and physiological grounds it is much better to cut down granulations smoothly with a sharp knife than to curette them away thus leaving an univen hed from which all ouring must cease before grafts are applied. He shows that if the hamorrhage is stopped by the application of stypics, the serum which is so essen tial to the life of the grafts will be congulated and as a result of this the grafts are robbed of necessary nutriment The proper was to stop hamorrhage is he pressure with a dry sterile pack of gauge Another essential in successful grafting is that the grafts should be out and immediately grafted before they have a chance to be ifrued by contact with the They should not be allowed to come in contact with salt solution, for the salt solution washes away the serum which tends to cement the grafts in place

MISCELLANEOUS

CLINICAL ENTITIES -TUMORS, ULCERS, AND ARSCESSES

Packard A Possible Factor in the Causation of Cancer. Surg, Grace & Obil , 1913 XVI 100 By Surg Lynne & Obse

Study of the natural history of cancer and induc tive reasoning lead the author to the conclusion that there must be some marobic agency which is the active cause of the discuss

and to furnish them a nutrient bed. M. G. Szerig

Accepting is a fact that cancer is of microbic origin he views with profound interest the further fact that there is a strongly implanted immunity to cincer in the human family. He finds this proven by the fact that surgeons physicians, and nurses who in the ordinary routine of their duly work deal frequently and over a long period of time with cancer disease and cancer discharges rarely develop cancer in their own bodies. He therefore accepts the further fact that those who develop cancer have in some as yet unknown way lost their immunity, and their tissues furnish a favorable soil for cancer growth, this being proven by the fact that those who already have cancer are susceptible to auto grafting, 1 e their resistance to cancer has been loct

That immunity is sometimes regained is also indicated by the considerable number of apparently hopeless cancer cases which spontaneously take a

turn for the better and recover The fact that cancer is far more frequent among the civilized nations of the earth is held by the

author to be significant, and he reasons there must he some cause for this

The fact that demineralization of the foodstuffs of civilized peoples has been going on for centuries seems to him suggestive that food salt starvation may be a negative factor in the causation of cancer

His investigations show that along the equatorial belt cancer is so rare that it is a negligible quantity, there the food supplies are largely of fruits and vegetables but little changed by manufacture or cooking - they contain their full and normal con tent of food salts

In the highly civilized and densely populated temperate zones of the earth cancer reaches its highest percentage, it is there that modern methods of manufacture of foodstuffs and refined methods of cooking rob the staple articles of food of their natural life giving food salts. The author concludes that it is among the eaters of polished rice and denatured flour that cancer reaches its highest percentage

Abbe How Can We Improve the Results of Our Operations for Cancer? Sure Gynec & Obst. 1913, XVI, 185 By Surg , Gynec & Obst

The mortality records of the census area of the United States show that the death rate from cancer per 100 000 inhabitants has increased from 64 in 1000 and 60 in 1005 to 76 in 1010 In the state of Massachusetts where the records go back further the cancer death rate doubled from 1850 to 1875, and since then it has nearly doubled again

The author states that all recognize that cancer operations are too late too limited and often done on too local a diagnosis. Lyen in early cancers of the breast before the metastatic growths appear in the axilla reports from large clinics show that one in five dies from cancer after a radical operation The technique of the operation has something to do with the recurrences In the period when breast operations were done from the chest towards the axilla recurrences appeared in the axilla Now with the type of operation starting at the axilla and working toward the chest the recurrences appear in the chest wall. This is due to manipula tion of the cancer tissue, squeezing it, etc., and per hans somewhat also to the rough methods used in preparing the part for operation, or in examining the patient before operation. The number of recurrences resulting from the above reason and also from not doing a radical operation has led the lasty to entertain the well founded idea that cancer operations in general are unsatisfactory and do not

cure To get better results certain well established conceptions must be enforced. Early eradication is at present the only reliable method of treating cancer and operation in general is the most satis factors method though energetic caustics and radiotherapy have their fields of usefulness recurrences will follow painstaking diagnosis and complete cradication at the primary operation, with the minimum manipulation possible the last six months several suggestions have been brought forth by Wassermann, Lischera Berkley and Beebe which bring hope for the future in the cure of cancer

To get cases earlier for operation the medical student must be educated to appreciate the importance of early diagnosis and prompt eradication The practitioners must be educated through the journals so they will seek an early diagnosis and especially to think of cancer in the cases of prolonged troubles of many types that have not raised sus picions of cancer Women must be educated to seek seminnual examinations of breasts and uterus at the hands of the physician

The most hopeful line of improvement in cancer

treatment is in prophylaxis. The layman must be educated to avoid perisistent irritation and to watch the results of trauma. If injury does not heal promptly he should seek a physician's advice. for sarcoma or carcinoma may develop at the trauma The physician must keep constantly in mind the precancerous conditions and treat them so efficiently that the observable cancers never develop EDWARD L CORNELL

Rous and Murphy Variations in a Chicken Sarcoma Caused by a Filterable Agent J Fxp Med 1013 XVII 210 By Surg Gynec & Obst.

Rous and Murphy have studied a transplantable sarcoma through 32 successive series of transfers They have shown in a previous paper that it may be transferred by means of a filterable agent present paper describes the variations which have been noted in the tumor The growths in 217 fowls have been studied. The original tumor was a spindle cell sarcoma while in some of the more recent ones the cells have tended to be spherical and a giant cell form has been met with Of late the growth has frequently given rise to fatal harmorthage from its substance

Some of these changes are probably due to the varying local conditions in the host. Some of them seem to be an expression of changes in the causative agent of the growth Jours & Con secret.

Chachloff: Asphysia of Malignant New Growths (Frstickung maligner Neubildungen) Russk Vraich,

By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

Oxygen is necessary for cell division Tumor cells consume oxygen intended for neighboring cells and thus cause their degeneration. The avidity for oxygen is seen by the growth of tumor cells along vascular tissue, the proliferation of embryonic vessels, and the occurrence of mast cells (the latter being the ovegen bearers) Using these facts as a basis the author suggests a treatment of tumors by depriving the tissue of oxygen He uses leucomethy len blue for this purpose This color enters the nucleus and does not cause the formation of methem oglobin when it enters the blood as methylen blue does The cells degenerate and die author could bring about an alopecia which he considers a suffocation of the hair producing tissue while the tissue about the hair remains intact By injecting the dye into a certain vessel a great area nourished by it was suffocated BRALDE

Gaskill Melanotic Sarcomata Resulting from the Irritation of Pigmented Nevi J Am W Ass 1913, lx 341 By Surg , Gynec & Obst Gaskill reports a case of melanotic sarcoma appearing externally and does not include in his dis cussion the non pigmented or the multiple idiopathic hæmorrhagic type of Kaposi He presents John ston's classification of the origin of these melanotic tumors. His case illustrates the harm which can be done by irritating this most malignant type of skin cancer Palhative measures are absolutely contraindicated and the nævi should not be dis turbed unless there is a slight irritation peripheral extension, ulceration or degeneration then wide and deep incision is imperative Few persons are without moles on some part of their bodies but these moles rarely undergo malignant degeneration The type that is irregular in outline waxy smooth frequently with very little elevation, and of a dark, purplish or bluish color should always be regarded with suspicion especially if exposed to chafing or irritation L G DWAY

Mayo Grafting and Traumatic Dissemination of Carcinoma in the Course of Operations for Malignant Disease J Am M Ass 1013 lx, By Surg Gynec & Obst

Autogenous grafting of carcinoma may occur spontaneously especially at points of contact as about the labia vulva and in the gastro intestinal tract In the large intestine, at least grafting may occur - not only at points where the mucosa of the opposite wall of the intestine comes in contact with the carcinoma, but it has been known to occur by the process of "seeding" in which malignant cells from the tumor have become detached and grafted on the surface of the mucous membrane, sometimes at a considerable distance from and usually below the original growth Autogenous peritoneal grafting in carcinoma of the stomach

occurs frequently, and is especially common in Douglas' pouch The ovaries are particularly susceptible to such grafting, the involved organs rapidly becoming cystic and obscuring the original focus of the disease Traumatic dissemination of malignant disease is not uncommon Embolic vascular dissemination through traumatism is common, especially in cancer of the rectum The infected thrombi in the derivatives of the portal vein are loosened and carried to the liver author has observed several cases of cancer of the breast which would have been favorable for a curative operation, teduced to a hopeless condition by the manipulations of ignorant persons in an attempt to rub away the tumor In cancer of the stomach and intestine, excision of the diseased part should be followed by application of the actual cautery to the cut surface to prevent grafting of cancer cells on the raw surface A report is given of cases of such grafting in the abdominal wall, on colostomy wounds, and in other situations The possibility of dissemination of carcinomatous growth during operative procedures should be carefully considered, and a specialized technique inaugurated in which carcinomatous processes would be treated as though they were the focus of virulent infection The first and most important principle in operations for malignant growths is wide local extirpation The second principle is the removal of the tributary lymphatics if possible by block dissection, and third to avoid grafting or traumatic dissemination of malignant cells during operation and by proper prophylixis prevent the possibility of grafting following operation

Castle Recent Case of Lipectomy Calif St J By Surg Gynec & Obst

The author reports a case in which the large pendulous abdominal adiposity was removed by kelly's method and the umbilical herma taken care of after the method of Mayo The specimen removed was one yard and three inches long one foot and a half wide and three inches thick at the edge and weighed 17 pounds. In closing the wound the tension sutures were passed through a small rubber tube about two inches in length and tied The incision was not drained but the serum was let out from time to time with a grooved director The patient was kept on a restricted diet When she left the hospital at the end of five weeks she weighed 190 pounds which was 75 pounds less than her weight on entrance The author believes this operation is less common than it should be

(H Davis

Much_ Hodgkins Disease and Its Relationship to Tuberculosis (Überdie Hodgkinsche Krankheit und ihre Beziehunger zur Tuberkulose) Beitr klin und thre nezienunger zur Luberkunger,
d Tuberki Suppl 1913 iv, 195
By Zentralbl I d ges. Chir u i Grenzgeb

The author points out that certain similarity between this disease and tuberculosis can exist, but that the microscopic picture of the lymphatic issue, it infilitation by cell forms of great variety and the microscopically visible fatty inclusions in the lymph glands and spleen permit of a positive diagnosis. If easy it hat even Sternberg has changed his original opinioh of the etiological identity of Hodgkins disease and tuberculosis in that he believes that there is only a certain relationship of both processes

The results of the examinations of Frankel and Much, who found 14 cases out of 15 to be free from tuberculosis, and those of other authors speak positively against the origin of Hodgkins disease through the tubercule bacillus But all are agreed that the process is an infectious one. Much tried to bring out the cause of Hodekins disease by using the staining method for the granular forms of the tubercule barillus after digesting the material with antiformin Together with Frankel he succeeded in showing forms in most all cases which mornhologically could not be differentiated from the grapular forms of the tuberculosis virus These forms are found only in small numbers and are difficult to recognize Isolated fibrous tubercules could be produced in the omentum of experimental animals with freshly extirpated glands, but not with material from autopsies The process, however, could not be made to spread and the gumea pigs had to be sensitized by vaccination with a virulent tuberculosis virus These findings indicate that it is not the tubercule bacillus which is the cause of this condition, because one would have to take for granted that only dead tubercule bacilli were always present and these always of the granular forms But they do show that there must be some relationship of the causative agent with the tubercule baccillus These findings of Frankel and Much were corrobo rated by others This relationship is emphasized by a case of Hagler who obtained a marked local reaction in the affected glands in a case of Hodgkins disease with tuberculin vaccination HAGEMANN

SERA, VACCINES, AND FERMENTS

Brüggemann A Contribution to Serum Diagnosis of Malignant Turnors (Beitrag zur Serum dag nose maligner Turnoren) Mill a d Gren-geb d Med u Chir., tota, xxv 877

Med u Chir, 1913, xxv 877 By Zentralbl f d ges Gynák u Geburtsh s d Grenzgeb

With considerable material at his disposal, the author tested the usefulness of Kelling's hymnolius reactions and of Ascoli's meiostagmun reaction on acrinoma. Kelling's reactions were positive in 68 per cent of dismost notestinal tumors and in 79 per cent of other malignant tumors. Beingn tumors always gave a negative reaction. Seven per cent of other affections of the stomach and intestines and 14.5 per cent of other affections preacted positively. Pergnant subjects reacted positively in 8.75 per cent of the cases. The reactions, therefore, are not specific and in general are not useful for diagnossis specific and in general are not useful for diagnosis.

The author explains the special frequency of positive reactions in gastro intestinal tumors by

the fact that most of these tumors are disintegrated in which case a positive reaction resulted very frequently if the tumor is located in other regions. If the reaction is decidedly positive in an abdominal tumor, it may possibly have diagnostic value as an indication that it is situated in the gastro-intestinal tract.

Ascol's meostagmin reaction loses in value because of the difficulty of its technique, which consists chiefly in obtaining usable extracts. To a difference of two drops, 2: out of 40 malignant tumors reacted positively, of other affections only one case, that of tuberculosis of the foot, gave a positive reaction. To a difference of 1½ drops, oper cent of malignant tumors reacted positively, but 13 per cent of patients who had no tumors also gave a positive reaction. That the reaction has a certain clinical value is not to be denied. Of 18 patients with malignant tumors, not one gave a positive Wassermann reaction—which is in contradiction of Can's assertions.

Miller The Advantages of the Noguchi Technique in the Diagnosis of Syphilis Interst U J 1913 xx 145 By Surg Gynec & Obst

The preparation of amboceptor in the Noguchi technique has been a source of real difficulty in many laboratories, but may in the author's experience, be overcome by following a few simple precautions. The procedure is given as follows. The rabbits selected are of good size and health,

and are kept under good hygienic methods no water being given at any time. The blood is drawn from a superficial vein of any individual using a fairly large hypodermic needle attached to a rubber tube about 8 inches long extending into a sterile flask of suitable size in which are small pieces of sterile gauze The needle should be plunged into the vein at an angle of not less than 45 degrees The blood is defibrinated by vigorously shaking the flask and all the serum removed by repeated washings in sterile o per cent salt solution. The rabbits receive 5 or 6 injections intraperitoneally, the corpuscles being slightly warmed and slowly injected. The author has found it advisable to divide the last injection into two parts, to be given on successive The resistance of the rabbits must govern the interval of all of the injections The animal is bled when a sufficiently high titre is reached and filter paper is impregnated with the serum, amboceptor is thus preserved for months at room temperature The complement is obtained by drawing the blood from the guinea pig's heart, thus preserving the pig for future use

Two points of great accuracy are claimed in the Noguch technique, namely (a) the elimination of the source of error due to the natural antisheep amboceptor which the human serum contains, and (b) the use of a serum not weakened by inactivation.

The amount of complement in the active scrum is not to be considered as an objection, being present in such a small quantity of serum as to be negligible

In the Noguchi technique one is working with absolutely known quantities whose units have been standardized and fixed. The technique is not only accurate, but it is simple, and because of its accuracy and simplicity it is especially communified to the modelable enumeral laboratory. M. C. STUR.

Vaughan. The Relation of Amphylaxis to Immunity and Disease 1m J M Ser, tors, cxls 161 By Surg Conce & Obst

The only way in which cells of any kind --bacterial, protozoal, or animal - can grow and multiply is by claborating ferments which solit up the pabulum within their reach, thus preparing a food supply. This is the fundamental factor of the general immunity possessed by animals against the lower forms of life. There is no constant fixed relation between the toxicogenic and pathogenic properties of bacilla. The bacillus prodigiosus contains enough intracellular poison to kill guinea tigs when injected intraperitonially in closes of 1 to 00,000 body weight while the anthray bacillus requires 1 to 1 700, and still the former is non pathogenic and the latter is highly pathogenic. The explanation has in the fact that the prodigiosus cannot grow and multiply in the animal body be cause its secretions do not digest the proteins of the animal body, or, what is more probable, the secre tions of the body cells destroy the bacillus. On the other hand the anthrax bacillus elaborates ferments which do digest the proteins of the animal body, while the body cells do not destroy the bacillus For similar reasons, a given bacillus may be outhogenic to one species of to one race and wholly desoid of effect on other animals

The great leson which we have learned from our studies of anaphyl xis is that the digestive secretions of body cells may be developed and modified by the kind of protein brought into contact with them then a foreign protein is introduced into the animal body certain cells develop a specific digestive ferment which splits up that protein and no other

The second fundamental fact in protein sen sitization is that every protein molecule contains a poisonous group. This is true of all bacterial, secretable and animal proteins so far as they have been investigated. The poisonous group in the protein molecule is the same so far as its physio logical action is concerned whatever be the nature of the entire molecule of which it is a part poisonous group found in every protein molecule probably contains the benzol ring with nitrogenous side chains Attached to this primary group are secondary groups, which may be designated as "characteristic" groups, because it is in these that one protein differs from another The sensitizing properties of proteins reside in the secondary groups It is for this reason that the special ferments elaborated in the cells of the animal under the influence of a foreign protein are specific. The poisonous group when detached from its secon dary or characteristic groups does not sensitize

either to itself or to the whole protein from which it came The protein molecule may be compared to the basic or neutral salt which becomes more or less poisonous as its basic elements are removed. and when the free acid only is left its maximum toxic action is reached. The protein poison in the purest form in which it has been obtained, and this is probably far from chemical purity, kills guinea pigs of from 200 to 100 gr weight when inacted intracardially in doses of 0 5 mg Biedl and Kraus have shown that the action of the anaphylactic poison and that of peptone are identical This is necessarily true because the active group is the same. The protein poison is partially set free or activated by the alimentary proteolytic enzymes and if it were a readily diffusible substance all proteins would be poisonous to man when taken by the mouth. But since it does not speedily pass through the alimentary walls and since ad litional cleavage renders it mert we escape its poisonous action

The prevention of anaphylactic shock is of the greatest importance to the physician. Although the procedure accessars to protect the patient against anuthsluctic shock was first pointed out by Yaughan Jr the best work along this line has been done by Besredka. The last mentioned investigator has shown that the intraperitonial injection of from il, to in ee of the serum in sensitized guines pigs renders them so positively refractory that have hours later intracerebral injections are wholly with out effect. The recommendation of Vaughan is that in all cases in which an aphylactic shock may be feared a preliminary injection of from a t to a rec should be made and after an interval of two hours the full dose may be given. The suggestion has been made by Rosenzu and Anderson that all individuals who have shown any tendency to asthma together with those who have received previous injections of the serum with an interval of twelve days or longer should be included among those in whom anaphy lactic shock may be feared. It is not held that even with these precautions all the symptoms of serum disease will in all cases be averted but serious annohylactic shock is not likely to occur. There are instances in which the first injection of horse serum has induced alarming and rarely even fatal, anaphylactic shock. These have been reported with sufficient frequency to cause more or less anxiety in the employment of therapeutic sera Besides it raises the very important question as to why a small percentage of person should be apparently susceptible to an agent to which the great majority are immune (ases of asthma in which more or less violent symptoms. such as successing inflammation of the conjunctiva and mucous membrane of the upper air passages result from riding behind horses are well known The flying hairs from horses carrying minute quan tities of protein are inhaled and may cause local sensitization and it may be that this accounts for instances of anaphylictic shock observed after first

injections of horse scrum. The recent brilliant work of Rosenzu, in which he has shown that the expired air contains a protein sensitizer offers a rational explanation for sensitization to horse

The valuable research of you Pirquet on vaccinis has done much to elucidate the problems of sensiti-By daily vaccinations this investigator has shown that the process is accelerated until finally it passes through every phase in a few hours This explains not only the development of vaccinia and the way in which it protects against smallpox, but also vaccination in other infectious diseases The avirulent organism of vaccinia still has the protein constitution of the virulent one of smallnox It has been modified in function but not seriously altered in essence by its passage through the cow The proteins constituting its molecules have not been changed or have been so slightly altered that one form still sensitizes to the other. The modified virus sensitizes the body cells and by this we mean that it causes the cell to elaborate a specific enzyme that digests and destroys the virus The body cells retain this new function and when the smallpox virus finds its way into the body it is directed and destroyed before it has time to multiply sufficiently to cause disease. This is the basis of all bacterial

and protozoal vaccination That the tuberculous animal behaves differently from the non tuberculosis on receiving injections of the tuberculin protein whether it be in the form of the living bacillus in dead cells or in solution has been abundantly demonstrated In 1807 Trudeau observed that when healthy rabbits receive injections of virulent cultures in the eye there is little to be seen for about 14 days when with increasing vascularity tubercles form in the iris after which inflammation extends and the eye is practically destroyed within six to eight weeks. Like treatment of tuberculous rabbits develops an iritis within from two to five days but at the end of the second or third week, at a time when the controls begin to develop destructive changes the inflammation begins to subside Later studies have confirmed and amplified these and it has been found that death may be induced within 24 hours by injecting a large amount of the living culture into the tuber culous animal

We are in great need of a vaccine for tuberculosis. and it has been abundantly demonstrated that neither the living nor the dead bacillus can be used for this purpose. It remains to be determined whether or not we can obtain from the tubercle cellular substance a non poisonous poison. It seems to be quite evident that the white man, after centuries, is becoming more or less immune to tuberculosis If we had some agent by which this immunity could be intensified, it would be a great aid in our warfare against tuberculosis

The relation of anaphylaxis to fever has been abundantly demonstrated. Work in the author's laboratory has established the following points

- Large doses of unbroken protein, administered intra-abdominally subcutaneously. intravenously have no effect upon the temperature, at least they do not cause fever
- 2 Small doses, especially when repeated, cause fever the forms of which may be varied at will by changing the size and the interval of dosage
- The effect of protein injections on the temperature is more prompt and marked in sensitized than in fresh animals
- 4 The intravenous injection of laked blood corpuscles from either man or the rabbit causes in the latter, even in very small quantity or in single or repeated doses, prompt and marked elevation of temperature
- faked corpuscles after removal of the stroma by filtration have a like effect
- 6 Protein fever can be continued for weeks by repeated injections giving a curve which cannot
- be distinguished from that of typhoid fever 7 Protein fever is accompanied by increased nitrogen elimination and gradual wasting
- 8 Protein fever covers practically all cases of clinical fever
- o Animals killed by experimentally induced fever may die at the height of the fever, but as a
- rule the temperature rapidly falls before death to Tever induced by repeated injections of bacterial proteins and ending in recovery is followed
- by immunity 11 The serum of animals in which protein fever
- has been induced digests the homologous protein 12 Fever results from the parenteral digestion
- of proteins it There are two kinds of parenteral pro-
- teolytic enzymes one specific and the other nonspecific 14 The production of the non specific ferment
- is easily and quickly stimulated 15. The development of the specific ferment
- requires a longer time 16 Sensitization and immunity are different
- manifestations of the same process 17 Foreign proteins, living or dead, when introduced into the blood soon diffuse through the tissues and sensitize the cells
 - 18 The subnormal temperature which may occur in the course of fever or at its termination is
 - due to the rapid liberation of the protein poison 19 Fever per se must be regarded as a benefi-
 - cent phenomenon 20 The evident sources of excessive heat pro-
 - duction in fever are the following (a) That arising from the unusual activity of the cells multiplying the enzyme, (b) that arising from the cleavage of the foreign protein, (c) that arising from the destructive reaction between the split products, from the foreign proteins and the proteins of the
 - The relation of sensitization to hay fever, common cold, and food and drug idiosyncrasies is discussed.

The author, in concluding, makes the following statement It seems to be a physiological law that the specific ferments elaborated by luving cells are determined by the proteins brought into contact with them I wish to formulate whit I believe to be two biological laws i When the body cells find themselves in contact with or permeated by foreign proteins, they tend to elaborate specific ferments which digitst and destroy the foreign foreign the specific ferments which digitst and destroy the foreign foreign they tend are attacked by destructive ferments they tended to which is to neutralize the ferments the function of which is to neutralize the ferments and thus protect the cells

BLOOD

Lintz. Blood Cultures, Simplified by New Apparatus, Demonstration Long Island M J, 1913, Vu, 60 By Surg, Gynec & Obst

Place in bottle 0.5 gm of finely powdered sodium of authorideor is occ of i per cent solution of authorium oxalate in normic alaine. Replace stopper so that there is direct communication between the inside partial viction of the partial viction of the partial viction in the flask, by means of a water partial viction in the flask, by means of a water pump, actum pump, or by simple authorium of the air with an ordinary syringe or by mouth or else by placing the flash in water with neck above the level and boiling the water. Then break the communication by utruing stopers believes the dead strillage entire apparatus, which is then ready for future of timmediate use.

To use apparatus, paint bend of elbow with tine ture of ordine for sterlize by any method), plunge needle into median basilic or median explait over and then rotate stoppers on the lower opening of F communicates with groove C. The vacuum will rapidly such in the blood from venn Hawing obtained the desired quantity of blood, ordinarily about 10 cc, break communication by rotating the stopper sidewise and their remove needle from vein Cover opening in skim with collodion.

Cover opening in skin with collocular Now shake the bottle. The sodium chloride or the ammonium oxalate used prevents coagulation but is not bactericidal. The blood thus obtained can be taken to the laboratory and be subjected to

the usual process

If a certain type of mucro organism is suspected to be present, instead of the oxalate or the chloridone may use a culture medium in the bottle best suited for growth of that particular type of bacteria cultivate it in the latter and thus dispense with

any (urther manipulation of the blood The advantages of this method are

1 Contaminations are excluded, since the blood does not come in contact with the air the flask acting both as syringe and as container of the nutrient media

2 The general practitioner of the city or country can avail himself of this method for he can procure the blood, and then send the flask to any laboratory

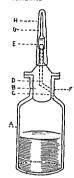


Fig 1 (Lintz) Apparatus for obtaining blood cultures (A) glass bortle, (B) air right stopper, (C) groot e in neck of flask, (D) canal in stopper, (E) upper opening of canal (F) lower opening, (G) needle (H) test tube. In this view of the apparatus the canal (D) is in communication with the groove (C). By turning the stopper this communication is broken.

for further examination. Then all that has to be determined is the micro organism present, so that the expense to the patient is but trivial.

3. The paraphernalia of the old method frightens.

the patient this method causes anticipation of no more pain than would be caused by a hypodermic needle

4. One has a sterile apparatus ready at once as

4 One has a sterile apparatus ready at once as the occasion arises

5 Apparatus can be carried in the vest pocket, making blood getting convenient outside the laboratory

6 Its simplicity — anyone can obtain the blood 7 Clear serum is obtained without hæmolysis Apparatus can be used for any serologic purpose

8 The apparatus saves outlay for expensive syringes and will last a lifetime

Burnham Post-operative Thrombophlebits 1nn Surg, Phila 1913 lvu, 151 By Surg Gynec & Obst

According to the modern theory, thrombosis depends on chemical or physical changes in the character of the blood together with disease or injury to the vessel wall, and possibly on changes in

the rate of the venous flow Changes in the vessel walls may be the cause of thrombus formation, but many cases occur in young adults in whom vessel changes are improbable

Man, of the clinical findings of thrombosis are suggestive of infection. The fever the blood count, and the local changes are all those of a mild grade of infection. The author reports of scaes of propositions thrombophlebitis in a total of 11655 operations. The condition occurred most requestly following hysterectomy the radicti cure of ventral herma, appendectomy, and operations on the uterine papendages. Philebits occurred in our cype reent of all operations for uterine over cype reent of all operations for uterine

Supparative infection of the wound seemed to have no influence on the occurrence or several of the phlebats. Purulent cases are not incessfully accompanied by the severer types of phlebats. Cases in which there was drainage of the original wound were generally midler and ran a shorter course. In drainage cases, the danger of phlebats is proposed to the proposed of

The absorption of cellular material and exudate from the wound — possibly the absorption of bacteria as well — seems to be intimately connected with the occurrence of philebits

There were 4 deaths in the series but no case of suppuration of the affected vein Embolism oc curred in 10 cases, and pleurisy in 4

Excepting rest in bed we have in our possession no definite means of influencing the course of philebitis. Ichthyol seemed to have a constant influence toward relief of the local pain

Cooley and Vaughan: A Simple Method of Blood Transfusion J Am M Ass 1913 lx 435 By Surg , Gynec & Obst

Cooley and Vaughan report a simple technique of blood transfusion successfully employed in a baby three days after birth Transfusion by Crile's method was abandoned the vein of the donor refus ing to bleed Blood from the donor's hasilic vein was drawn into a 10 cc glass syringe containing 1 cc physiologic salt solution, and the syringe nearly filled with blood o 5 cc more of saline was drawn The sharp needle was then changed for a blunt one and the blood then injected into the child's vein, which was exposed and opened Further injection proved unnecessary Two minutes would more than cover the period between the insertion of the needle into the donor's vein and the completion of the injection of 10 cc into the child The technique is so simple that it can be undertaken by anyone and may be applied in repeated small injections if followed up with a small amount of normal salt so that no clot will form in the lumen of the vein I. G. DWAN

BLOOD AND LYMPH VESSELS

Pignatti: The Process of Healing of Wounds of Atterles and the Experimental Production of Traumatic Aneursms (Novelels recherches sur le processus de guérison des places des artéres et sur la production experiméntale des anévisses traumationes). Policlin Roma, 1013, 33, 24

By Journal de Chirurgie

In this period, when the subject of vessel suture (especially that of arteries) and the transplantation of organs is holding such a prominent position and is being followed with so much success, it is particularly interesting to review certain questions relative to arterial cicatrization and the effect which this has upon the blood vessels and blood pressure is furthermore important to understand the exact histologic changes which occur during the process of healing of arterus. After having reviewed the works and the opinions of various authors and experimenters on this question the author sums up the different views as formulated up to the present time, con cerning the repair of arterial wounds treated by suture in the following way 1 Complete repair of integrity of the vascular

wall
2 Partial reconstruction with new elastic and

muscular fiber formation
3 The formation of continuous scar, complete,

or only of the muscular fiber
4 I ormation of a simple scar

As a result of thise various opinions the author has performed a number of experimental researches in the hope of elucidating as nearly as possible the question of the histology of arterial scar formation In order to reduce the experiment to its utmost

In order to reduce the experiment to its utmost simplicity he has used only longitudinal wounds of the atteries which allow good results to be obtained most easily and an indispensible point, prevents the obliteration of the three process of expair non penetrating wounds might have, the remaining the process of expair non penetrating wounds might have, the renot sof nonpenetrating longitudinal wounds of the atteries which has enabled him to take up also the quistion of the pathology of traumatic aneurisms.

The author reports his researches in detail, to gether with the technique employed on twelve cases of penetrating longitudinal wounds, and twelve of non penetrating wounds

If atteral scars are examined after a considerable length of time (17 months) they will appear for the most part, to be made up of connective tissues. The regeneration of the normal components of the vascular wall (the elastic and muscular fibres) is an all cases very himted. In no instance was complete restoration of the vascular wall noted, due to the restoration of the vascular wall noted, due to call the control of the vascular wall noted, due to call at components. In the arterial scars thus formed, one could make out the presence of a rich retuction composed of "gatterfastern" or precollagen fibres which appeared like embryonic connective tissue are colution. This reticulum is always very difference of the control of the cont

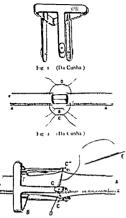


Fig. (Da Cunha)

ent from that which is found during the course of miscular coolition. The experimental production of traumatic ancustoms is possible, though dishuilt and one can produce either two of files ancussos. This hatdogic formation expectly an experimental that the connective issue in penetrating or non-penaltaing wounds of the afterness generally prevents on blood pressure. A Bassor (

Leitao da Cunha Apparatus for Suturing Arteries and Velns (Apparell pour sutures artérolles et veineuses) La Presse Ved 1913 xx1 112 By Journal de Chirurgie

Mhen arterul autumng is done by the Carrell method, the great difficulty he in saparating the arterul walls and in arranging the buttonhole for the arteries into a true trinigh. Fertao da Cunha advises the following technique to remody tha above difficulties: Ill is apparatum and grown in width steel trainfiel of erich and, of the triangle there is a method are to the control of

small hook. The trangle can be opened at one sude to permit its removal after the operation. The arterni wall is attached to the hooks of the instrument at three qually distant points. By this method the round arterial opening is made trangular and the continuous suture may be introduced according to the technique of Carrill after which

the instrument is removed by opening the triangle. In a lateral anastamosis, the two corresponding points on each vessel are placed upon two of the hooks only. The upper side is stitched first and then after turning the instrument over the suture is continued on the opioutic side. I Demovr

Perimow Anastomosis Between Vein Saphena Magna and Artery Hibialis Posterior (Fin Versuch der Immahung der Vena saphena mena in die Art tibialis [108] | Kurit Freich 1933 x 1 127 | Rv Zentralik [d. ex. Chir u. 4 genezeb

The author is of the opinion that Weiting's method of anaxiomousing the vein and artery often fails. It thinks that arterial pressure is often insufficient to overcome the vales of the veins which thus hold back the blood and prevent it from eaching the cund branches and capillaries. He because this usually have no values. If it reports a sace of grangeries of the toes following cropt poisoning where he performed in anaxiomous between the values have a maniform of the prevention of the prevent

Bernheim Arterlovenous Anastomosis, Successful Reversal of the Circulation in All Four Extremities of the Same Individual J in If Ass. 1113 is 160. By Surg Gyme, & Obst.

This article is a reply by Bernheim to a recent article by Cornen of Breston in which it was asserted that reversal of the circulation in the limb of a human is impossible because of the obstruction offered to the artiful flow by the year valves Cornen claimed that his animal experiments showed conclusively that the arterial pressure is unable to overcome this obstruction, and that injection expert ments on the cadaver gave similar results. Remheim reports a case in which he successfully reversed the circulation in all four extremities, and claims that this as well as other cases done by him effectively refutes all of Coenen's experimental data The case in brief is that of a coune woman now 26 years of age who suffering from Raynaud's dis ease had actual (toes and tingers) and threatened gangrene of all to prextremities. Reversal was done in the left hig in February 1011 Carrel's end to end suture being employed in the right leg in May 1011 in the left arm in Inquary 1012, and in the right arm in March 1912, the last three operations being the lateral anastomosis devised by Bernheim and Stone in 1911 Gangrene was stopped in each instance, and the patient's pain was totally reheved in both arms and one leg. In the right leg the pain was only partially releved, due to complications other than the arterial suture. That the blood not only went over to the ven but also down the ven in each instance was evidenced by a plapable thrill at and below the site of anastomosas (a bruit that is audible down to the popitical spreas of the legs and almost to the wrists in the arms) and pulsation in the vens, that is not only felt in all extremites but even seen in the vens of the arms well down below the elbows, the superficial tissues being rather scan. The patient is up and about and able to attend to her duties. No simular case is on record.

POISONS

Conradi: Friedlaender Sepsis with Severe Hamorthage in the Adrenals in a Case of Hereditary Syphilis (Friedlaender Sepsis mut schweren Nebennerenblutungen in einem Falle von Lues here ditaria) Jahrb J Kinderh, 1913 txxvi 190 By Zentrabl J d ges Gynak u Geburtsh s d Grenzgeb

A premature infant of eight months suffered from supportation of the umbilious a purulent secretion from the nose and several mucous patches on the hard palate The skin could be peeled off from the palm of hand and sole of the foot Papules were abundant. In the adrenals a large dark red hæmorrhage was found on section Gramm nega tive bacilli developed from the spleen and heart blood in boullion culture Spirocheta were demon According to the strated in the liver and spleen author, the child suffered from hereditary syphilis and sepsis from Friedlaender's encapsulated bacilli originating from the infected umbilicus. The hæmorrhage in the adrenals was the result of the sepsis and the direct cause of death

Lindemann: A Description of a New Method for Culture of Anadrobes Suitable for Practical Purposes (vereinfachung der Anaerobenzikhtung nebst Angabe eines präktisch verwertbaren neuen kulturverfahrens) München med Wehnschr., 1913, lt. 236

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The ordinary method of growing angrobes from the blood consists in filling a number of Petit dishes and placing them in a tightly closed preserving jar the bottom of which has been filled with pyrogalio!

The Petit dishes in the lower portion of the jar have as indentire on either side, so that when the cover by put on there still remains a hole by means of which the gontents communicate with the outside.

Even for obligate an errobes this simple method is quite practicable. It his soil) one disadvantage the difficulty of observing the growth of the culture in order to make this possible the author has devised a new simple appricatus consisting of two devised a new simple appricatus consisting of two devised as new simple approximate order to the processing of the control of the processing of two devised in the control of the processing of two devised in the control of the processing of the control of the processing of the process

Severin: Pneumococcus Septicemia and Pneumococcus Meningitis Following Purulent Cholecystitis and Cholangitis (Uber Pneumokokkensepsis im Anschlusz an acculose purulent cholecystitis und absocherende Cholangitis) Mitt a d

Grenzgeb d Med u Chir, 1913 XX 797 By Zentralbl f d ges Chir u 1 Grenzgeb

The author relates two important cases in female patients who had suffered from typical gall stone coltes for years. Pneumococci could be demonstrated in the blood and spinal fluid in both cases before death. Aspiration of the gall bladder after death showed that the pneumococci were also present in the pus of the gall-bladder. The author emphasizes the fact that a general infection from gall-bladder rarely occurs because of the bacterio published the rarely occurs because of the bacterio the case of the same present infection of the gall bladder rarely occurs from the catterior of the gall bladder rarely occurs from the above, organism.

Barclay The Diagnosis of Gastric and Œsophageal Affections by X-ray Methods Med Chron tele, fort Ivn 240 By Surg Gynec & Obst

The author finishes the thesis on these subjects begun in the last issue, the present installment occupying fifty pages. Topic by topic the under lying basis of bismuth X ray methods is explained and applied to several deforming and non-deforming diseases of the stomach and duodenum. Spra modic conditions with or without organic disease of the stomach of duodenum must be differentiated from the stomach of the stomach of the stomach of the stomach from the stomach deformed belief to the stomach of the stomach depends greatly upon its irregular carcoachment upon the stomach area for its detection. The author behaves with Heriz that tension is the only cause of true vuseral pain.

The symptom complex of duodenal irritation is recognized (i) Normal stomach more or less bypertome, (2) active pensiabis (3) rapid empty-ing of stomach, (4) food seen passing through duoden the complex pension of the pension of the complex pension of t

multiplicity of conditions

The concluding pages give a tabulation of several hundred cases according to the operation of post-mortem findings. The X-ray findings alone are frequently insulficent as a basis for disposs, but repeated X-ray studies in the light of history and climical findings greatly enhance the value of either method alone. The beginner in this work is wrong as often as he is right. Hourse F-OFTER.

Speder Dental Radiography and Its Various
Technique (La radiographic dentaire et ses diverses
techniques)
Arch d Heet med rap c etin, 1912,
2x 560
By Journal de Christige

A good radiographic technique should furnish numerous views in which the dimensions and con-

nections should approach as closely as possible the actual conditions

To obtain such radiographs of the teeth it is necessary to employ methods varying with the region to be examined, the nature of the problem and the conformation of the individual The principle methods in use are the intrabuccal and extrabuccal

1 Intrabuccal radiography (a) To | Belot France owes the development of dental radiography, its elaboration and popularization. He has shown that if the plate is placed horizontally between the dental arches, it is sufficient if the tube is placed on the prolongation of a line passing throughthe apex of the tooth to be examined, and striking the plate at an angle of incidence of 45° in order to get a natural sized image. A plate holder prepared according to these specifications (acilitates the application of this method (b) Often for the incisors cannes, and first molars it is necessary only to apply a plate to their posterior surface with the rays normal to their surface (c) When one desires to obtain simultaneously pictures of the dental arch together with the conditions and connections of the tecth and the sinuses the method described in figures 4 and 5 of the original article is useful

2 Etitabucal radiagraphy Here the regular technique for radiagraphy is followed the plate being placed next to the skin, the pattern lying in the literal position with the head turned to one side and forobly extended. It should be remembered that a frontal view is sometimes useful in obtaining pictures of the maxillary snusses and their connections with the tech of the upper jaw. Thus with the properties of the side of the properties of the side of the properties. The side of the properties of the side of the properties of th

R LEDOUX LEBARD

Jones The Use of Condenser Discharges in Electrical Testing Proc Roy Soc M, 1913 vi, 40 By Surg, Gynec & Obst

A simplified method of testing muscle and nerve excitability has been used for sufficient time to prove its superiority over currents supplied by battery and induction coils in the following respects: (1) it is more rapid, (2) it is more precise, (3) it gives more

information, (4) it is far less painful to the patient. The testing is done by discharging a condenser of series of condensers of known capacity which have been charged with a known voltage from any convenent current supply. A simple device for cutting in more capacity for charging and discharging is described.

In practical application one may use a dozen or more settings of the condenser to find the minimum charge which will produce contraction. This gives graduated readings which express much finer differ ences in the degree of muscle nerve excitability. When other factors are known the condenser capacties in micro-farads can be easily reduced to terms of

descharge duration if so desired Since condensers of the low capacities required for this work are not stocked commercially, suggestions are given as to their building and standardization together with the range of condenser sizes which the author has found necessary to elect minimum responses in all muscles from those neally continued to those having markets. It fortist & Portres existing the continued of the continued to the continued to exist the continued to the continued to the continued to the continued to the continued to the continued to the continued to exist the continued to the c

Cotton The Episcope, an Optical Instrument for X-ray Arch Ront Ray, 1913 xvii 355 By Surg, Gynec & Obst

This instrument, as described by the author, enables one to view an object simultaneously with an A ray picture of that object in such a way that its internal mechanism can be projected mentally upon its surface This is accomplished by using a transparent plane reflector at a 45° angle in conjunction with the object and image placed in planes at right angles to each other and at a distance corresponding to that in which they were when the X ray image was produced. The eye occupies the position the anode of the tube had during the exposure The instrument can be adapted also for combined photography of an object and its X ray picture. With its aid X ray outlines of the internal organs can be brought into direct relation with surface markings ADOLDH HARTENG

Barratt The Action of Scharloch R upon λrayed Skin Lancet Lond 1913 clxxxiv 454 By Surg , Gynec & Obst

In order to observe the effect of Scharloch R upon the epithelia Structures of Stan which is chronically very indolent experiments were made upon the sinn of rabbits a care which had received moderate Scharloch R in olive oil showed the same tendency as previously reported for normal skin, i e a selective proliferation of the epithelial elements. The degree to which this proliferation could be carried was extreme in skin not severely degenerated to the control of the proliferation could be carried was extreme in skin not severely degenerated and attrophical diments be so that is greatly searned and attrophical

Such skin showed a tendency to slough after the injection in direct proportion to its degree of degeneration. Several drawings from microscopic sections serve well to illustrate the epithelial changes described.

GYNECOLOGY

UTERUS

Keyes: Carcinoma of the Uterus in the Non-Illinois M J 1013 Pregnant and Pregnant By Surg , Gynec & Obst XXIII. 160

In his opening statement, Keyes cites statistics to prove that frequency of cancer in women as compared to cancer in man is as 3 to 1, and that nearly one third, or 28 per cent (Fehling), are of the

uterus

Statistics also show that cancer is most prevalent among women between 30 to 40 years, the percentage being 34, in the sixth decade the percentage is II He states that sexual intercourse fecundity and sequelæ of labor seem to have a marked influence on the disease and old chronic inflammations leading to endocervical catarrh must play an

important part

Cancer of the uterus is discussed under three heads 1 Carcinoma portio vaginalis uteri occur ring most often in the 42d year, appears as a papillary growth or burrows down as a carcinoma ulcer This first type usually grows down along the vaginal mucosa and not up into the cervix 2 Carcinoma endocervicis uteri occurs usually about the age of 47 years and extends upward into the fundus of the uterus rather than out upon the vaginal cervix 3 Carcinoma corpus uteri occurs most often at about the age of sa years and makes up only from between a to 13 per cent of all cases It is also found more often in nullipara

Subjective symptoms are (1) Hæmorrhage from any trauma, spontaneous, or menorrhagia in a woman between 35 and 40 years is suspicious, (2) odor is usually a late symptom and speaks for extensive necrosis, (3) pain is also usually a later symptom and may arise from a variety of causes, (4) metastases, (5) cachexia

Under diagnosis Keyes advises carly curettage in all suspicious cases, with microscopic examination

of the scrapings

Carcinoma in pregnancy and labor (1) Carcino ma of the fundus in pregnancy is rare, (2) cancer of the cervix is more common and may be either present at time of conception or may commence during pregnancy

The prognosis for carcinoma complicating pregnancy is much worse because of the increased blood and lymphatic supply About 30 to 40 per cent of

the cases terminate in abortion

Labor is delayed, and section in a series of cases reported saved all the viable children and all but 6 to 7 per cent of the women, while the expectant treatment resulted in the loss of 50 per cent of the mothers and 70 per cent of the babies ELGENE CARY

Kriwsky. Radical Operation for Cancer of Uterus (Zur Frage der Radikaloperation bei Caremoma uteri) Russ Monatschr f Geburtsk u Gynāk 1913, xxvm, 55

By Zentralbl f d ees Gynak u Geburtsh s d Grenzgeb

This article is a report of 50 cases of extirnation of the uterus, 40 of cervix cancer and one of corpus cancer in most cases with formation of large crater, involvement of vagina, and immovable uterus The average duration of symptoms was five months Before operation currettage, cauterization, and Etheriodine applications had been employed chloroform anæsthesia with the Roth-Drager an paratus was preferred by the author. The longs tudinal incision was used 23 times and the Pfannen stiel transverse incision in 27 of the cases. The invaded tissues were removed as extensively as possible. In 41 patients abdominal drainage was necessary with 7 deaths, in 9 closure was without dramage with 2 deaths. Duration of the operations Nine patients died during the averaged 2 hours first month of septic peritoritis, septicemia and myocarditis Eight recurrences were found in first year and three in the beginning of the second Of these four died In eight cases of longitudinal incision and in 13 of transverse incision healing was primary The patients remained in the hospital on an average of 37 days GINSBURG

Broun The Curability of Cervical Cancer of the Uterus \ 1 W J 1013 XCVB 217

By Surg Gynec & Obst

The author believes that in the majority of cases of operable cervical carcinoma extension occurs by continuity of tissue and that the only hope of cure is by the removal of the surrounding tissue percentage of gland involvement is small. When secondary invasion occurs, it is first seen along the incision of the vaginal vault. On account of the primary mortality and the disagreeable sequelx. hysterectomy is justifiable in incipient cases

Schuchardt in 1893 evolved the extended operation, which was further developed in 1805 by Schauta and Wertheim They divide these cases into three classes (1) where there is no involvement of the broad bgament, (2) where the base of the broad ligament is involved, (3) where the cancerous process has extended so far that operation is useless

In the last two classifications, surgical procedure with wide extirpation is justified. The only hope of the unfortunate cancerous patient is in early treatment and that our efforts should be directed toward the education of the lasty through medical societies, midwives, and druggists, and that this education should include pamphlets on early diag nosis, which should be sent to the medical profesectoms.

sion, especially to those who are actively engaged in teaching in our medical schools I mally, the author gives a brief illustrated tech nique of the extended operation of vaginal hyster-

ROBERT T GILLMORE

Ottow: Hematometra Caused by a Corporeal

Cancer with Acquired Cersical Atresia (Illa matometra im 80 Lebensjahre, bedangt durch ein Corpuscarcinom bei erworbener Atresia cervicii). Zen trolld f Gynak , 1913 xxxvii 275 By Centralbl I d ges. Gynlk to Gebuttsh a d Grenzech

Ottow mentions a number of cases of hematometra in the post climacteric period reported by others While these were caused by closure of the cervix through carcinomas or myomas he concludes that in his case a complete attesia of the cervix existed as a result of a currettage performed a number of veres ago. At the same time a cornus canter developed alceration of which caused hemorrhage. and because of the atresia a hematometra devel oped. The atresia suddenly broke and a severe hamorrhage followed which however did not endanger the general health of the patient as the

blood lost had accumulated during a long period of time. Of particular interest is the fact that the senile atrophic uterus of his patient 70 years old could still accommodate itself to such an extensive hematometra Lehmann. Climacteric Hemorrhages and Pro-

phylaxis of Cancer (klimakterische Blütungen und Carcinomprophylaxe) Zentralbl f Gyntk tot3 XXXXII 06 By Zentralbl I d ges Gynak u Geburtsh a d Grenzgeb

The author condemns the term climacteria hamorrhages ' These hamorrhages do not depend on the nature of the climacteric period, but each one has a definite etiology according to which it should he named It should be made clear to the layman that more frequent and more profuse menstrual periods during the change of life are always the result of disease. An exploratory currettage should be made in each suspicious hemorrhage. Reser

Messa. Contribution to the Study of Retrogressive Transformations and Benign Degenerations of Fibromata of the Uterus (Contribution a l'étude des transformations regressives degenere scences benignes des fibromyomes de l'uterus) d Ottel e Ginec , 1912 il 549 By Journal de Chieurgie

Messa divides his work into four comprehensive chapters and studies successively I ibrous degeneration accompanied by secondary

alterations of necrobiosis redema and calcification l'seudocystic degeneration due for the most part to phenomena of a dema, but also due to liquifaction of the tissues by the process of necrosis

Necrosis as a retrogressive change in itself Infectious processes divided in their turn into

suppuration and sloughing In the first chapter he reports seven observations of fibromata with fibrous degeneration. This is essentially characterized by the development of connective tissue unevenly distributed which surrounds and progressively hardens the myomatous nucleus. This is accompanied by Jesions of the nutritive blood vessels which progressively diminish in number and cabber. The atteries are attacked by endarteritis. The fibrous tissue develops first and in a predominating manner around the blood The causes of these vascular lesions are probably numerous but one is constant and of preponderant importance eg the approach and establishment of the menopause

The progressive reduction of circulation, due to obliterative endarteritis which may even develop into complete occlusion of the blood vessels explains the possibility in this case of real necrosis hbromita which are the most subject to the phenomena of necrobiosis are those which by their volume or position (abromata of the fundus or subligamentous abromata) are the most esposed to

insufficient nutrition of to compression I he fibromatous nodules which develop subserous are rarely attacked by necrobiosis. On the contrary the intramural nodes are more frequently and more easily involved than all others

thelemitous degeneration secondary to fibrous degeneration is comparatively rare Calcareous degeneration on the contrary although rarely found at operation is nevertheless quite frequently met with at autopsy. Clinically it often escapes notice, but sometimes when it attacks fibromata of certain size it manifests itself by phenomena of pressure

Accrebiosis reveals itself principally through two types of symptoms. Metrorrhigia and nain

The second chapter treats of cedematous and pseudocysta, degenerations. After having summed up the divergent opinions and theories of authors upon this question. Messa says that for his part in the great majority of cases the softening of phromatous tissue and the formation of pseudocystic cavities must be attributed to ordematous degeneration. From the viewpoint of pathological anatomy this is characterized by infiltration of the fibromatous elements by a bound which may remain infiltrating or may collect and form pseudocystic cavities of varying dimensions. (linically the redematous degeneration manifests itself by a change in the development of the tumor which, sometimes latent during a period of several years enlarges rapidly, becomes pseudofluctuating presenting the aspects of a malignant tumor whereas it is benign

Following thirteen observations of ordematous or pseudocystic fibromata, the author states that the fibromata which are most exposed to this ordenatous degeneration are partly the subserous type and above all those subjected to phenomena of pressure, as for instance the intraligamentous type, then the intramural type, particularly if they are developed in the upper parts or fundus of the uterus Moreover, the question is ordinarily one of rather

large fibromata

The author next reviews the pathological anatomy of the fibromata from the macroscopic and microscopic points of view and says that cedema suffi ciently explains the mechanism of the alterations which are first, infiltration and disassociation of the elements of the connective tissue, next, the swelling and softening and disassociation of muscular fibers, and the consequent transformation of fibromyomatous tissue into a reticular tissue the meshes of which are distended by the ordema Moreover, this condition may come to be the seat of necrobiosis But why and how is cedema produced? It is due to a hindrance of return circulation and to the increase in the number of blood vessels and especially those of embryonic structure From the point of view of symptomatology and of clinical evolution the two most important and most constant signs are the rapid increase in size and softening One must still add hemorrhages signs of compres sion of the bladder and digestive disturbances The diagnosis may be confused with pregnancy or beginning cysts of the ovaries. It may be very difficult to differentiate from fibrosarcoma of the uterus. The prognosis is generally not serious. In any case it is particularly the symptom of hæmorrhage which demands intervention

Messa next reports six observations of fibromata attacked by necrosis Of all the conditions which can influence the appearance of the latter, the most important are certainly those which concern the position and mode of development of the tumor And it is noteworthy that the intramural fibromyta

are the most susceptible to necrosis

Is this due to the fact that uterine contractions release the already weakened connection which exists between the fibromatous nodule and the capsule or does it develop primarily in consequence of thrombosis of the veins? Messa states that he is unable to answer this question

As regards age, it is particularly women during the period of sexual activity who are subjected Pregnancy and the puerperium are of great importance, says the author, who next writes a short chapter on the macroscopic and microscopic pathological

anatomy of these degenerations

Necrosis manifests itself chincally by harmor rhages, menorrhagia and metrorrhagia, to which are often added abundant vellow discharge by pains by retention affecting the general state of health by fever, signs of intoxication of the organism, acet onuria, indicanuria, and presence in the urine of albumin and casts, due probably to the action of absorbed toxins upon the kidneys The diagnosis is generally difficult The prognosis must be guarded As to intervention, it is necessary if necrosis is diagnosed or even suspected

The infectious degenerations of fibromata occur in two distinct forms suppuration and gangrene

or sloughing

Suppuration is a rare complication. It is encountered especially during the period of sexual activity and the menopause Generally local and contracted by contiguity, the infection may be conveyed to the fibroma by extra uterine means or by the ascending vagino uterine passage, and it is the latter manner of transmission which is the most frequent and important. Also the fibromata are the more exposed to the infection the nearer they are to the uterine cavity and the submucous type is most often attacked. Clinically, there is more pronounced pain, disturbance of general health, with fever and general emaciation, in these cases than in any others It generally occurs that locally at the end of a certain period of time the collected ous forces its way out through the tissues, either toward the uterus and vagina (which is most frequent and most favorable), or toward the abdominal pelvic cavity whence arises local peritonitis if there are adhesions, or general peritonitis. The prognosis is always serious

Gangrene due to divers microbes (colon bacilli, streptococci staphlococci) and in the origin of which the anærobes certainly play an important part, attacks the submucous pedicled fibromata and rarely the others Age seems to play an undoubted part and one notes that the invalids are almost always over forty years of age or even old women In a general way, these divers degenerations of fibromata favor the establishment of gangrene through disturbances of nutrition or circulation which accompany and determine them

The diagnosis of gangrenous fibromata is difficult as long as the focus of gangrene does not manifest itself externally, and does not show its presence except by signs denoting the absorption of toxins On the contrary, diagnosis becomes much easier when the focted discharges begin to appear which, when recognized in a patient having a fibroma, permit very nearly the determination of gangrene or suppuration It is particularly with cancer of the body or the neck that the diagnosis is confounded.

The prognosis of submucous pedicled fibromata in process of sloughing is not serious in itself and depends above all on early intervention. Hence the treatment in these cases is extirpation as early as possible, the method of procedure depending

upon the size of the tumor

In summing up his work the author says that, in general, fibromatous degenerations are to be found in thirty per cent of cases From the point of view of the proportion and frequency of various degenerations, out of twenty-five fibromata examined by him Messa found seven cases of fibrous transformation with secondary necrobiosis calcification and cedema, thirteen cases of pseudocystic cedematous degeneration, six cases of extensive primary necrobiosis, one case of beginning sloughing The prognosis of these various degenerations is

very variable but in general that of the tumor itself is always more grave. All these degenerations are present in their maximum of frequency between the ages of thirty five and fifty-five

As regards treatment it is necessary to operate

A RISSET

Sampson: The Influence of Myomata on the Blood Supply of the Uterus, with Special Reference to Abnormal Uterine Bleeding. Based on the Study of 150 Injected Uterl Containing These Tumors. Surg. Gynes & Obst . 1013, XVI. 144 By Surg , Gymec & Obst

from dangerous consequences

Menstruation is a venous flow dependent upon changes in the venous plexus of the endometrium. and as there are no valves in the uterine veins the amount of blood lost is in a large measure regulated by the muscular efficiency of the uterus

Large subserous myomata are very vascular and cause a hypertrophy of the uterine artery from which their nutrient vessels arise, and thus more blood is carried to the uterus and tumor the excess over the normal being diverted to the tumor chief arterial and venous changes are in the peripheral zone of the uterus and menstruation is usually not altered

Small intramural myomata are less vascular than the myometrium, and usually do not alter menstrua tion, but occasionally cause uterine inefficiency with

accompanying menorrhagia or metrorrhagia Large intramural myomata are more vascular (arterially) than is the myometrium and these cause a dilatation of the venous plexus of the latter esne rially about the tumor but do not necessarily dis turb menstruation. When they encroach upon the uterine cavity they intercept the arterial supply of the endometrium over them and this, with the pressure of the tumor, causes atrophy and anæmia of the overlying mucosa The endometrium not directly or indirectly encroached upon is always thicker and often actually hypertrophied menstrual flow occurs for the most part from the While the profuse flow when it occurs is in a measure dependent upon the increased amount of blood in the uterus as a whole and the hypertrophy of portions of its mucosa it is apparently due more to the failure of the uterus to control this blood 1 e . muscular mefficiency Occasionally veins over the surface of the tumor may become eroded and give rise to abnormal bleeding

Submucous myomata represent a later stage of the intramural variety

Adenomy omata may or may not disturb menstru ation, and the factors are apparently the same as in

the ordinary variety When bleeding arises from the tumor itself due to sloughing or sarcomatous changes it is arterial, in contrast to the venous hæmorrhage which occurs from the endometrium

Haenisch. Treatment of Uterine Myomas with X-Rays (Über die Rontgenbehandlung der Uterus myome) Strahleuth-rap, 1913 u, 249 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

The author reports 31 cases of uterine myomas and menorrhagias of the most varied kinds treated

with the X rays Four cases were not cured. among them one unrecognized case of cancer of the uterus and one unrecognized case of myoma, of the twenty seven remaining cases three were virtually cured and twenty four cases were absolutely cured for a period varying from 1/4 to 21/4 years. Manmas decreased in size or disappeared entirely, the hemorrhages ceased completely. The average number of treatments were 4 to 6 series totaling so to 60 exposures A mild transient dermatitis was observed sixteen times and with the exception of a pigmentation there were no other late complications Technique Wehnelt inductor-water cooled tube - hardness 6-8 Walter, 7-0 Bauer with 11/6-2 ma - sole leather or aluminum filter of 2 mm thickness, four sessions of 5 to 6 min each on four successive days with 36 cm focal distance from skin measured 5 to 10X underneath the filter Two weeks intermission occurred between the series Application was made from more than one angle only in cases of large tumors. Best results were obtained in patients ranging in age from forty to fifty years Even the largest tumors if not too old may be treated in this way However, treatment is contraindicated in submucous pedunculated softened and infected tumors. Care must be exerted in depleted women Cases with a preceding peritonitis and diseases of the adarxa are preferably excluded from treatment The author warns against the so called one time maximum exposure and against the use of increasing doses on account of late reaction in the form of skin and intestinal injury The success of the rays is principally due to the destructions produced in the ovaries and the direct action on the tumors Psychic influence is not to be considered Experience teaches that the deep raying of myomas and menstrual anomalies is a powerful and harmless therapeutic agent Diagnoses and indications. however must be perfected. Concerning the time and dosage a moderate mean should be adopted

Suggs Treatment of a Septic Uterus. Ter St J Med 1913 vin 270 By Surg , Gynec & Obst

The author states that the use of a sharp curette to scrape out a septic uterus is uncalled for, it should never be used It should be used to remove only loose septic fragments such as an incompleted abortion or particles of retained placenta its use is ended

Suggs advocates very strongly the use of a continuous intra uterine douche. He has devised a very ingenious method for giving a continuous douche mixture with which he claims to have obtained very gratifying results

His treatment is to pass a Nelaton catheter, No 8 English to the fundus after the cervix has been made patulous Around this in the uterine cavity gauze is packed so as to hold the tube in place, but not too tightly A fountain syringe is now attached to the tube at an elevation of one foot above the nationt. Into the syringe is placed equal parts of 50 per cent alcohol and a saturated solution of bone acid. A pint of this mixture is passed through the uterus every hour. The author claims that this method will stop any recent infection in from 6 to 24 hours.

Mein Adrenalin and Pituitrin in Dysmenorthoa (Adrenalin and Pituitra bei Dysmenorthoa) Mo natschr f Geburish u Gyndk, 1913, xxxxii 169 Bi Zentralbi f d ges Gynak u Geburish s d Grenzgeb

In addition to the usual symptomatic treatment klein makes use of the biological principle that the harmonious relationship that should exist among the ductless glands and their secretions is disturbed in dysmenortheea. Schickele has shown that the hormones of the ovary lower blood pressure and give the uterine mucosa the power of rendering blood non coagulable. This change is present during pregnancy when the maternal blood furnishes nutri tion to the embryo The mucosa of the tubes and sometimes the epithelium of ovarian cysts and vagi na have this power as in hæmatocolpos. This action of the hormones decides whether the blood discharged during menstruation congulates or not Non coagulability to normal and significs the proper function of the ovarian secretions Adrenalin acts in opposition to these oophorins and during dys menorrhora there seems to be an excessive production of them whereby the corpus mucosa becomes over redematous. Giving sterile hypodermic injections of a coor to a coor adrenalin hydrochloride chluted with physiological salt solution during dysmenorrhora caused marked improvement duration of menstruction can also be shortened by such injections. When on the other hand dismenorrhora is due to an insufficient secretion of cophorins a combination of adrenalin with pituitrin gives excellent results. The former acts as a vaso constrictor, the latter causes the uterus to contract and thus congulated blood cannot collect in the uterus PONTR K

Bazy: Technique of Hysterectomy by Anterior Decollation for Double Adherent Silpingitis (Technique de Hysterectomie pir decollation anterieure pour double salpingite adherente). Rre de ginte et de chir aldom, 1912 xix 520 lix Journal de Chirutgie

The technique of the operation is well known the above his performed it a great man times. The uterus is grasped with a solellum forceps. Its anterior surface is freed and the round lagments were by forceps placed yor a crit or less from the week of the performance of the control of the con

and vessels are then pushed toward the bree and the uterine pecific freed and ligated. With the right index finger the posterior leaf of the broad ligament is perforated from be fore backward and immediately, below the origin of the round ligaments. The uterine arties are then climped posterior left, unless the artiery is hidden by an overling indlammation.

The cervix is cut from left to right with a large curved sessions. The interior segment of the cervix is grasped with two Musuux No o forceps and the superior prior of the atterns with another prior. The adhexa are then amputated from below upward and before backward. The utero ovarian arteries are then ligated and the operation completed as in a panhysterectomy. Glooke's I user.

Bretschneider Causes, Therapy and Forensic Importance of Violent Injuries of the Utensic (ther die Ursakin Theraps und die forinsische Bedeutung der violenten Gebarmutter-referzinsich Monaticht f Geburth u Grudk 1014 xxxxx 80 IN Zentrall if dies Graha Ur Glutzth 3 d Gretzerb

Britschneider reports four cases of injuries of the terus rupture of the uterus during version at the end of the pregnance rupture during thorton in the fifth month perforation during abortion in the third month and perforation of a sende atrophied uterus with extensive carinomic of the certix. He gives the following rules. In approximation in the rectification of a superiority time freed reputing uterus with extensive carinomic of the certix. He gives the following rules. In approximation in the present of the certificial properties of the properties of the properties of the properties of the properties of the certification of the uterus of the properties. The properties of the properti

The perforation of a sound utrus and failure to recognize the condition as such is a bid technical error though perforation of a pathologic uterus may occur even in the hands of the skilled man level.

Fletcher The Cure of Procidentia Uteri in Flderly Women, a New Intra-Abdominal Technique Surg Grace Obst. 1913, 331, 216 Illy Surg. Grace & Obst.

Hether's operation is cessitially an abdominal histerectomy the uterus being amputated at the internal os and the stumps of the broad ligaments, together with the round ligaments. Design utilized recording to the following multiple of suspension as a secure means of supporting the cervix stump and haddler loose to the public box.

The abdominal operation is preceded by the following operations on the crivix and vaginal imputation of cervix anterior colporthaphs, and perincorthiphy. The related posterior vaginal wall is resected in a rectangular manner widels exposing the rectordle and retracted levator and muscles in the lateral sulfi. The defect is closed by means of a Waldo figure-of-eight stitch.

distases

Fletcher says that, "aside from the benefit result ing from plastic work in the vaging, the intraabdominal procedure accomplishes what Raldy noints out for his technique, namely (1) The weight of the heavy uterus is removed. (2) the overstretched vaging is lifted high and held firmly in place. (3) the supports utilized are natural supports of the uterus and vaging-the broad ligaments, (4) the cervix remains a pelvic organ, as is natural, and (4) the ammediate and remote results, as regards fixation of the upper part of the vaging are perfect

540

III. Further Experiences with the Gilliam Opera-Im J Obst. \ 1 tors tion for Suspension levu. 260 By Surg , Gynec & Obst

The author reports that in a series of 782 (alliam one rations there was a loss of a patients, one of whom died from pneumonia on the tenth day, and a recurrence of the retroversion in seven cases. He has not observed any bowel obstructions in any of this series, nor has he heard of any miscarringes, dystocia malpresentations hermas or bladder disturbances as a result of the operation. In a creat many cases there has been pain at the site of the new attach ment of the round ligaments in the abdominal wall which he interpreted as due to adhesions between tube and abdominal wall, and asserts that since care has been taken to prevent a too close approx impation of tube and parietes this has not been observed

This is believed by the author to be the best operation extant for the relief of retrodisplace ments N. SPROLE HEAVEN

Geist Histologic Framinations of the Endometelum (Untersuchungen über die Histologie der Uter usschleim haut) Arch f mike Inat , Bonn 1011

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Gest confirms the statements of other workers that the secretory activity of the corporeal glands describes a curve which reaches its high mark just prior to menstruation, continues to exist during pregnancy and decreases during the time of the menstrual flow

Ciliated epithelial cells, which must always be sharply distinguished from the secretory cells, are found at all times as well as during menstruction and pregnancy Rod shaped cells which probably are degenerating secretory cells are found particul larly late in the intermenstrual period but never during pregnancy Cells with "pycnotic nuclei," are artificial products Cells in the stroma are increased in size during the premenstrual period, decidua like in character, but never in such numbers that the stroma could be mistaken for a true decidua

Lymphocytes and neutrophiles are present in the apparently normal mucosa, as well as plasma cells which perhaps are the last remnants of a former inflammation Mast cells appear only during the menstrual and postmenstrual periods

ADNEXAL AND PERIITERINE CONDITIONS

Brooks. Involvement of the Ovary in Enidemic Parotitis, with a Report of Two Cases J Am If Ast, torg, lx 350

By Sare, Gynec & Obst

In a brief paper Brooks calls attention to the infrequency with which this complication is reported. notwithstanding the constancy with which the possibility is mentioned in articles dealing with epidemic parotitis Mention and a brief discussion. of all the cases discovered in the meager literature

of the subject follow The possibility of confusion in diagnosis with appendicitis and with salpingitis is mentioned and is illustrated by references to the cases recorded by Meisnhardt and Renon and in Bunt's discussion of parotitis complicating appendicitis records two private cases both occurring in adults and both of unmistakable nature. Prompt recovers took place in each instance in one of which the additional complication of a double mastitis was

DELSCRI He is of the opinion that the complication is more frequent than the hterature would indicate, but advances in explanation of its relative infrequency compared to the involvement of the corresponding sexual gland of the male the protected location of the overy which shields it from the minute determinutive trauma so likely to occur in the male He is also of the opinion, with Trousseau, that involvement of the ovary is a benien complication of mumps Attention is called to the probability that sterility is not likely to follow this lesion, because of the anatomical structure of the overy and its prompt recovery under probably analogous lesions in other

The report is made in the hope that it may stimulate others to record instances of ovarian involvement in epidemic parotitis so that a true estimate of its frequency and a more certain knowledge of its effects may be reached

Stolper The Influence of the Ovary on the Sugar Metabolism (Über den Linfluss der weiblichen Keimdruse auf den Zuckerstoffwechsel) Gyndt Kundschau 1913 vn 93

By Zentralbl f d ges Gynnk u Geburtsh s d Grenzgeb Thirty two pregn int women were kept on a regular diet while thirty others were given 100 gm glucose Six out of the first group and 21 of the second group showed glycosuria Spontaneous excretion of sugar occurred in three and a change in tolerance towards glucose in two of five cases of hyperemesis Of 180 cases of myomata and ovarian cysts one was complicated with diabetes which was not influenced by operation. The limit of assimilation of sugar was increased in most of the myoma cases, whereas it was normal or decreased in diseases of the ovaries Decreased sugar tolerance was always present in climacteric women and noted 13 times in 16 castrated women Referring to former experiments the author asserts that absence of ovarian function

ASCRIPTION

causes a diminution of the limit of assimilation of sugar by its influence on the pancreas and adrenals

Escher. Pigment of the Corpus Luteum (Uber Hoppe Seyler s den Farhstoff des Corpus luteum) Zischr f Physiol Chem 1913, lxxxiii, 198
By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

In order to isolate the pigment of the corpus luteum the ovaries of cows are dehydrated with alco hol and the vellow pigment is dissolved with petro leum ether The extract, after washing with alcohol. is condensed at a low temperature until the pigment crystallizes out of the filtrate From 146 kg of ovarian tissue, o 45 g was isolated or o co31 g from The pigment belongs to the luteni group of hydrocarbons, and is in every respect identical with carotin of carrots and of green leaves For this reason the name "corpus luteum carotin" is sug gested Even the melting points of these three substances are identical Chloroform and benzol are better solvents than boiling alcohol or petroleum ether It forms a red solution in carbon disulphide In concentrated solution it appears blue concentrated sulphuric acid it forms the indigo blue coloration characteristic for this group of hydro-In reflected light, the rhomboid crystals appear copper or chocolate colored The spectro scope fails to reverl a difference between the animal and vegetable carotin. A tri iodid of ovarian carotin has been made that is like the tri jodid from vegetable carotin The origin and function of the pigment are unknown It is probably an intracellu lar glandular pigment Piccolo and Lieben claim it is not the same substance as homatoidin or biliru bin. Holm makes the same assertion in regard to bilirubia ZWEIFEL

Bazy: Placental Carcinoma or Malignant Chorioepithelioma of the Tube (Carcinome placen taire ou choiro-épithéliome malin de la trompe) Bull el mem Soc de chir Par, 1913, xxxxx, 219
By Journal de Chirurgie

The case is one of a woman 25 years old who presented signs of pregnancy (absence of menstrual flow for seven months and increase in the size of the abdomen) She consulted Prof Ribermont Des saignes for incorrigible vomiting, loss of weight and extreme anamia from which she had been suffering some time

Upon operation the author found a tumor the size of an adult head in the right corner of the uterus. which was firmly adherent to the uterus and resembled a sponge engorged with blood. When the tumor was touched bloody effusions with considerable hæmorrhage resulted After trying in vain to enucleate the tumor which was very friable, Bazy decided to remove, en masse, the tumor and uterus The cystic left adnexa were removed secondarily

The patient died thirty hours after the operation Histological examination showed the tumor was a malignant chorio epithelioma of the Fallonian tube

Bazy has been able to find only 11 other such tumors in the literature They develop as do analogous tumors of the uterus from the ectodermic covering of the chorionic villi but do not as in the uterus follow a hydatiform mole This would seem to show a difference between tubal and utering placental

Clinically these tumors have never been diagnosed The prognosis is bad as in all 12 cases death has followed either from shock of the operation or from I DUMONT metastatic tumors

Geist: Senile Involution of the Fallopian Tubes (Die semile Involution der Eileiter) Arch f mihr Anat Bonn 1913 IXXVI, 220

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb Macroscopically the involution chiefly involves the mucosa less the other coats Microscopically the disappearance of the lateral folds and the diminution and shortening of the principal folds are noticeable. The diminution in size and disappearance of the folds may lead to complete obliteration A moderate proliferation of connective tissue of the principal folds exists and the muscular layer shows considerable connective tissue hyperplasia and a disappearance of the clastic fibers The vessels show changes similar to those described as sclerosis of pregnancy in uterus and ovary The epithelium is considerably altered. In place of the ciliated and secreting epithelium is found an indifferent cell. frequently simulating endothelium but occasionally culated epithelium remains even in completed The usual changes in the ciliated epithehum are the loss of cilia and basal layer, in addition there is the appearance of characteristic granules in the upper part of the ciliated cells which cannot he correctly interpreted

Typho-Tuberculous Tubo-Ovarian Fullerton Abscess Surg , Gynec & Obst , 1913 XVI, 180 By Surg Cynec & Obst

In searching the literature the author finds but three cases reported of typhoid infection of the female genitalia, and one of these, on account of inaccurate bacteriological study, is doubtful He reports a case operated on for chronic pelvic

inflammatory disease 14 weeks after an attack of typhoid fever Adherent bilateral tubo-ovarian masses were removed which contained pus from which a pure culture of B typhosus was obtained. and on microscopic examination a diffuse tuberculosis was found involving both tubes and ovaries The pelvic tuberculosis was most probably secondary to a limited apical involvement of both lungs

Since typhoid fever is a septicæmin in its early stages, with not uncommon post typhoid suppurations and infections elsewhere in the body, and in view of the fact that the female genitalia are frequently already the site of some disorder, which would favor a secondary infection, the author concludes that post-typhoid pelvic infections, primary or secondary, are much more common than reported, and that the simplest most common and rational means of infection is by way of the blood strain, though he does not exclude other possibilities.

He urges careful inquiry as to previous typhoid infections in all cases of pelvic infection and accurate bacteriological study of every case at operation

Neu: Diagnosis and Treatment of Gonorthera of the Adnesa (far spenishen Diagnosik und Therapacderweillichen Maeigenerther) Monitake

| Gebiefik ii Gyndk 1913 xxxxii 182 |By Zentrall I d ges Gynak ii Geburtsh n d Grenzgeh

The author reviews the more important advances recently made in diagnosis and therapy The opsonic index is generally dispensed with in vaccine diagnosis of conorthera. Passive immunity exteri rients are fruitless and active immunity is only partially successful. Although the results of various investigators differ set it would appear that gonor third prositions can be very favorably treated by the method of Fromme Collmann by Reiters via cine and he Brock's Orthorn Local or focal reactions are of no disensity value and the general reaction should be positive when it causes a if Neu has made use of these rise in temperature diagnostic and therapeutic measures in 26 cases and comes to the conclusion that gones occal vaccina tion is of very little therapeutic value. He failed to get a cure and in only one case did he get improve ment. The author offers no explanation with regard to his negative results, and suggests that it is possible that varring therapy will become more useful when we know about more it. In suspected tubil pregnanes the physician should use caution in vaccinating with arthigon WHITE

Lörincz Treatment of Inflammatory Adnetal Tumors with Intra-uterine Injections Die Behandlung entendricher Adnetiumeren mittell intra uterinen Limpittzingen) Gulgeli et igis lin

By Centrall I i d ges Gynak u Geburish s d Grenzgeb

The injection of a two per cent solution of argen tamine into the casity of the uterus is a procedure desord of danger if certain measures of precaution are taken. In tubal diseases this method of treat ment must be designated as a very successful one as a marked improvement or complete recovery took place in almost all the author's cases. However if this excellent curative action of the argentamine injections is more exactly analyzed the improvement can not be ascribed solely to the remedy since treat ment lists from five to six weeks (25 to 40 injections) and absolute rest in bed during this time is an importantfactor in the result as the author demonstrates in his histories Nevertheless results obtained with the argentamine injections are very good. An important advantage in the use of this solution is to have the cervical canal so wishened that the injected fluid can flow out again Of advantage also is its hypera mic action on the entire genital canal If after five or

six weeks' treatment no improvement occurs, surgical intervention is indicated Schere

Langes A New Method of Shortening the Round Ligament. Line new Method eder Intraperitonesien Verkützung. der Figurenta. rotun bi. Zentraft. f. Gestät. 2011. 2010. 35

By Centrall I d ges Gynak u Geburtch a d Grengeeb

An ideal method should strengthen the round bigrment in its entire length and the uterus shoul like used in physiological anterexion The author's technique is as follows. After making a trapsverse incision, the round beament to divided into thirds by a blunt climbs. The clamps are then so approx imited that three folls of beament be parallel. The distribute is traid with suk button hole a sturestable internal inguinal ring. If the external ring is not r rom ment the needle is easied through the deep abdum in if from the I resignal loop is then sewn to the fundus at the attachment of the round beament The three parallel portions of the beament are then united by a continuous calcut suture. The creers tion was extrormed in to cases of retrorexion and where undateral ovarian tumors were terrosed, the shortening being done on the healths side

Heuttner The Excision of Inflamed Appendages Jur Fishek der Estimation Fritzordah Frikandert Afreis am Hand von Hundert Eries liggenden Operationen Cor III foskere Inc. 1913

By Sentral' Li d ges Gonak u Gel cresh s d Grenzreb

At General great conservation is used in treating independent address. When operation is necessary the abdominal section is preferred the technique of which operation is given by Laure. The salient feature of his method is that the removal is begun in the millim and continued laterally and from below turn with.

below ups refs. The artist the following methods of the united has practiced the following methods of the practice of the following methods of the following methods of the following methods are designed to the following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following to help a following the foll

The transverse wedge extreom of the fundus of the value has the aim of preserving one or both inflamed tubes in relatively young women whereby menstruction and oxidation is no be presented. The plane of incision in this operation is in most of the others is through the factor transverse of Pfannen stiel. The operation to be used should be decided by the case at hord.

The vaginal method is inferior to the abdominal

BURK

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Hörrmann: Rare Clinical Signs of a Pelvic Connective Tissue Cvst, I pidermold il Cyst (Schene klursche I rischenungen einer Beckenbandigewebscyste, I pudermodevste) Zentralli f Gynak 1913 xxxvii, 140

By Zentralbl f d ges Gynik u Geburtsh s d Grenzgeb

The author reports the observation of a firm exst with serous contents in a multipara 50 years old. It was the size of a small child s head, situated retro vaginally. It pushed the posterior vaginal wall forward in such a manner that the upper portion of the vagina became temporarily closed. A purulent had smelling discharge caused a temporary pyocol pos by a retention and infection of the vaginal and cervical secretion which was expelled in large quantities at times in gushes by abdominal pressure and palpation. As puncture of east was not success. ful the exst sac was totally extrepated after which complete recovery occurred. The cost was intimatch adherent to the neighboring organs and extended with funnellike processes beneath and posterior to the rutum and to the varinal walls It continued with a funnel shaped process upwards The wall of the cyst consisted of to the sacrum connective tissue permeated with muscular tibers Its inner layer was formed of stratified squamous epithelium and connective tissue showing a few masses of foreign giant cells enclosing transparent threadiske structures which were partially stained brown (remnants of hair?) Various possibilities must be entertained for the interpretation and origin of a pelvic connective tissue exst located entirely extraperitonial cysts of the Wolfhan ducts eystic embryomata of the sacrococcygeal region of the pelvic connective tissue glands of the fortal vagi nal will or its surroundings or of the vestibular entoderm and finally inclusions of the Caudal ducts on account of the firm coalescence with the sacrum I CLERT

VAGINA

Kuhn. The Biologic Factor in the Treatment of the Vagina (Das biologische Moment bei Behand lungder Vagina) Zentrabl f Gyndk 1913 xxxvi 228 By Zentrabl f d ges Gynak u Geburtsh's d Grengeb

The biologic process to which the continued acid reaction of the vaginal secretion can be contributed is the principal safeguard of the vaging and in the presence of pathologic processes the end object of our therapeutic efforts. An alkaline reaction of the body fluids is detrimental to this structure. By the injection of a sugar solution it is not difficult to produce and maintain in a fermenting mixture an acid The metabolism of bacterial organisms can be altered by the presence of sugar and this not only once but on account of continued growth of the organisms indefinitely. This has been proven for colon bacilli and also for the other ordinary inhabitants of the vagina which in the presence of sugar become and remain acid producers. Kuhn attributes the result of treatment of vaginitis by means of yeast according to Landau not to the action of yeast but to its contents of sugar, as sterile yeast causes a change in the reaction of vaginal secretion and a decrease in the virulence of the infection. He attributes all results obtained to the biologic process of fermentation in the vagina which tends to the formation of acids and is the result of the simultaneous introduction of sugar A good part of the beneficial action of glycerine treatment is attributed to the same fact centrated solutions of glycerine act the same as sugar i e bactericidal In dilute solution, gly cerine influences the growth of bacteria and their metabolism. After removal of the glycerine tampons from the vagina glycerine remains in weak solutions and causes an active growth of bacteria and the for mitton of acid products GRUNBAL M

Gottschalk About Causes and Treatment of Discharges from the Fernite Genital Organ (Cher die Ursachen und die Behandlung des Ausillusses aus den weblichen Gentale) Deutsche med Il Chuscht, 1013 XXVI 249 B Zentralb I d ges Gyna, u Geburtsh s d Grenzgeb

Laucorthan is a symptom and not a clinical The most frequent cause of purulent catarrhs in children as well as in adults is gonorrhua Leucorrhua during the years of development is caused by scrofulosis anymia or due to masturbation After a cured gonorrhua in the male the remaining mucous shreds may cause chemically and toxically a purulent non specific discharge in An abacterial discharge can also be the vagina caused by a hypoplastic or hypotrophic glandular endometritis just so cervical mucous polypi and glandular or pappillars erosions of the cervix Discharges like meat washings may be an early symptom of malignancy a degenerating myoma may however emit a foul smelling discharge genuine vaginal discharge may be caused by colpitis senilis. In senile endometritis there is also occasionally a foul smelling bloody tinged flow Costus interruptus will in time produce a discharge. as also foreign bodies, especially metal intra uterine A profuse bloody mucous discharge is caused by tuberculosis of the endometrium and the cervix Hydrops and cancer of the tube are accompanied by a flow which is produced by the tube itself whereas adnexal diseases only secondarily cause a flow by congestion and hyperæmia of the uterus Treatment in each case must be based on

Wolkowitsch: A Case of Persistent Incontinence of Urine in a Woman with Serious Vesicovaginal Fistul'e (Tin I all von hartnäckiger Harmin kontneau ber uner 1 rau, der durch die von mit vorgeschlagene Operationsmethode bei schweren Bisenscheidenfisteln geheilt wurde). Won ützehr f Geburtsh in Gynab, 1013 xxxvii, 202

CHRENRERO

the causal factor

By Zentralbl f d ges Chir u i Grenzgeb The author operated on a 24 year old nullipara for incontinence of the bladder He used Gersuny's method of twisting the urethra The patient had been subjected to the same operation once before This second operation turned out a fulure as in the first instance and resulted in the formation of a urethra varinal fistula. The latter was closed and the incontinence was cured by ante position of the uterus below the fistula The anterior vaginal wall was incised longitudinally, the uterus was drawn downward, and the cervix of the uterus was sutured into the region where the fistula had existed by applying two silk threads to the vaginal wall. The sutures remained sixteen days. After the operation the cervix protruded a little through the external urethral orifice

Stewart: Formation of an Artificial Vagina by Intestinal Transplantation Ann Surg, Phila, 1013, Ivii, 210 By Surg, Gynec & Obst

Stewart reports a case of acquired vaginal atresia, where the patient had undergone a panhysterectomy seven years previously for uterine carcinoma and an extensive vesico vaginal fistula had resulted After repeated attempts at closure of the fistula, the vagina had become shrunken until it measured but two inches in depth and two in width At the last attempt to repair the vesical opening, the entire vaginal mucosa was excised except for an area on the posterior wall corresponding to the vesical opening. The posterior vaginal wall was then separated from the rectum and sutured to the anterior wall, the undermined portion being fitted to the opening in the bladder. Healing occurred promptly and fortunately, except for a small urinary fistula opening on the perineum months later the patient returned for the purpose of having a vaging formed. With the uthotomy position, an incision was made between the labia and a space created between the bladder and rec tum. This was deepened by blunt dissection until the peritoneum had been opened and a tampon was inserted Abdominal incision was then made, and a ten inch portion of the ileum, not far from the cæcum, was resected, the proximal half being allowed to remain attached by its mesentery The open ends of the bowel having been anastomosed to preserve the intestinal continuity, the resected portion was drawn down into the space made between the rectum and bladder as far as the vulva The vesical perstoneum was next sutured to that of the sigmoid flexure around the transplanted intestine, after which the abdominal wall was closed. With the patient again in the lithotomy position, that part of the sleum lying against the bladder was fixed in position with sutures The portion protruding from the vulva was cut off and the open intestinal margin was sutured to the vulva ornice The new vagina was packed with gauze to keep its walls against the edges of the dissected space. Again the patient recovered uneventfully, except for a slight urinary leak just below the urethral orifice One year later the result was satisfactory Stewart's paper closed with a short reference to the nine other cases thus CARRY CULBERTSON operated upon

Daniel. Tuberculous Elephantiasis of the Vulva (Die elenhantiastische Tuberkulose der Volva) Manalschr f Geburtsh u Gynak, 1913, xxxvn 65 By Zentralbl f d ges Gynak u Geburtsh s d Grenzreh.

Daniel describes a case of tuberculous of the vulva in which the labia and preputium chtoridis are hypertrophied and the inguinal glands enlarged The husband was tuberculous and syphilitic and the patient had had three miscarriages Wassermann reaction was negative, the ophthalmic reaction positive and anti-fuetic treatment had no effect on the disease Extirpation of the diseased parts and of the inguinal glands resulted in cure This is a case of non-ulcerating tuberculous elephantiasis, probably of primary origin. Clinically, there are three types of tuberculosis of the vulva 1, cutaneous lupus vulvæ 2, ulcer or ulcerous hypertrophy, 3, elephantic non ulcerating. The third is characterized by hypertrophy and cedema of the affected parts. In order to make the diagnosis the inguinal glands the lungs a possible ophthalmic reaction and the genitalia of the husband must receive consideration Should a piece of the tumor be excised and examined it is advisable to make

many sections, for frequently the tuberculous

follicles are rare, and only the bacilli are found

The author's case is a primary tuberculosis of the vulva for the husband has tuberculosis.

probably transmitting infection through the sper-

matozoa Radical operation is at present better than radium therapy or electrolysis. Daniel makes two concentric incisions in the form of a horse shoe with the concavity downwards in such a manner as to include the large and small labids. Should the inguinal glands be infected they are removed by an extra incision with the concavity upwards, whereby the two inguinal folds are united transversely Thus the diseased vulva and glands can be removed in one mass The sutured wound has a \(\lambda\) form after the former operation and a # form after the latter BRETZ

MISCELLANEOUS

Levy-Dorn X-Ray Therapy in Ganecology (Zur Frage der gynäkologischen Rontgenbestrahlungen) Fortschr a d Geb d Rontgenstr, 1013, xix, 407 By Zentralbl f d ges Gynal u Geburtsh s d Grenzgeb

Levy Dorn treated 41 cases (14 fibroids, the rest metorrhagia and climacteric hæmorrhage) with X rays, using four methods of application First, to exposures on the abdomen and to on the back with the tube 40 cm distant Amenorrhœa re sulted only in exceptional cases the symptoms came back in six months but the fibroids underwent atrophy Second, exposure as above except that a leather filter was made use of The results were the same as before Third, radial illumination was employed from four sides using the leather filter, at a focal distance of 20 to 25 cm Amenorrhora resulted more often Fourth, the rays were

applied from numerous angles a 2 mm alumnum filter was used, and the patient was exposed to to 15 times within several days. This method must be used with great caution and is more expensive as well as harder on the apparatus. Subourand and Noire's radiometer was used.

Krönig: The Therapeutic Value of Actinic Rays: X-Ray or Radium Treatment (Die Strahlenthe rapie in der Gynakologie Rönigen oder Radium therapie) Zentralbi f Gyndi, 1913 xxvii 153 B) Zentralbi f d ges Gyndi u Geburtah s d (erengeb

The action of radioactive substances is anologous to that of X rays In both instances the softer rays are only used for the cure of lesions on the body surface, the hard filtered ultrapenetrating rays for the deeper lying organs. It is possible to increase the intensity of the radium emanations by increasing the quantity of material used and by applying them to the lesions from several angles. The mesothorium offers the possibility of using large doses on account of its relative chappiess. Great care must be exercised in the use of the different preparations as they vary in their action. The method of treat ment also depends on the quantity of the substance the size of the area to be exposed the manner of packing - whether that or exhibition and on the thickness and nature of the filter | Finally different people first very differently to the same exposure with the same substance. Of particular interest is the rapidity of the effect of radium emanations as compared with those of the X rays. With radium the effect is occasionally obtained after the first exposure whereas with A rays six or even more exposures are necessary to obtain any results Radium probably acts on the uterine musculature and the ovary. While the action of radium is chief ly hæmostatic the retrogression of myomas does not occur in the same degree as with X ray treat ment even though all indications point to the prob ability that this latter action will be obtained with radium in the near future. At the present time the X rays must be given the preference in all severe cases especially in large myomas. Of much prommence is the combined Rontgen and radium treat ment (intra uterine application of radium - ex ternally applied X rays) With this combined method the annoying hamorrhages which occasion ally continue to exist after the first few X ray treatments will be rapidly and safely checked IMMELMANN

Scherber: Ftlology and Treatment of Some Rare Ulcers of the Fernale Gential Organs (/w klink und Attologie einiger am weiblichen Genitiele auftre tender seitnern Geschwirsformen) Dermat Ister, Berl, 1913 xx, 140.

By Zentrallb f d ges (synik u Gebutsh s d Grenzgeb

Two ulcers are described that had been considered aphthous. Both are painful and in neither case are the inguinal glands enlarged.

Case I The ulcer is sharply circumscribed and has a punched out appearance. The size varies

from a per to a dime, and after removing the thin, grayish yellow contents the floor appears granular. B pseudodiphtheria staphlococci and streptococci were found. The ulcer is aplithous

Cast A the vestibulum value pin head sized grajah sellow nodules appeared and these broke down in the center and left small ulcerations with a gray white crust and inflamed border. These small ulcerations become confluent and leave a larger area covered with this pseudomembrane. The floor of the ulcer bleeds easily when the membrane is straped off. Bacteriological examination revealed the striphylococcus aureus and a quite long and thick grain positive bruillus. The author considers the litter a distinct species and calls the ulcers pseudo tuberculous.

Bumm Treatment of Wounds After the Radical Operation for Carcinoma of the Cervix (Zur Irage der Wundsersonjung bei der Radikalopyration des (a colluten) Teritalli f Grank 1913, xxxvi 1 lb. Zentralli f der (a colluten) Teritalli f Grank (a Gentrish a d'erangel)

Only the flawless healthy non infected peritoneal suture promises good post-operative results. Then micro organisms are harmless and tampons and In 130 tamponed cases the dramage unnecessiry author had a mortality of 20 7 per cent But in the last 100 cases in which he used the double scrous suture the mortality was 6 per cent, four dying of personitis one of whom had had fever before the The raw areas at the posterior surface operation of the bladder and the anterior surface of the rectum are first covered and then the parametritic spaces are closed partly with interrupted and partly with continuous sutures. Then a second continuous scrous suture with thin catgut covers the first line of sutures like a true Lembert The mesentery of the flexure and the scrosa of the rectum supply the necessary peritoneum. In 20 out of 12 cases the swab test was positive even streptococci being found. but no symptoms developed. There was no vomiting in 55 cases and meteorism invariably disappeared within the first 24 hours It is best not to operate during febrile or subfebrile conditions. As a preliminary to operation the carcinoma is cleaned out until dry with the curette and thermocautery hmate alcohol is used is disinfectant and the exposed areas are packed with a 10 per cent silver nitrate solution on gauze Gauze is sewn over the edges of the abdominal wound and the rest of the prophylaxis is as usual. Bleeding vessels are ligated and during the excision of glands in the vascular triangle the lightion needle is held ready for use. Double ligation without extirpation of the kidney suffices in cases of accident to the ureter near the kidney FLATAU

Bossi· Ovarian and Uterine Disease and Psychopathy (Fierstocks-Uteruskankhetten und Psychopathien) Frauenariz 1913 xxxiii, 7
By Zentralbi f d ges Gynik u Geburish s d Grenzgeb

To clinicians sociologists, legislators and to the public Bossi points out repeatedly the relation of many diseases of the female genital organs to mental diseases which for many years he has claimed to exist, without, however, wishing to out the brain of women into the "small pelvis," and without intending generalization. Heredity, predisposition and general circumstances must be taken under consideration. In heredity expeculoric prophylaxis. is demanded as well as medicinal surgical and other preventive measures This is based on the conception that infectious or toxemic diseases of female or male organs located far from the brain max cause as motom groups characterizing various mental disorders Upon the same theory is based the author's oninion that disturbances in mental balance are not so frequently found in the most conspicuous expeculagic diseases as for example in tumors, but most often in chronic infectious endometritis of slow course, pus retention and other toxic elements in the uterine cavity resulting from Linking and flexion of the interns or in cases in which amenorrhies or even diminished menstrus tion is complicated with endometritis. I rrors and blunders in the treatment of the insane are discussed in detail. To the gynecologist and other specialists of the medical profession the doors of the insane asylum should be widely opened

Boss closes with the report of two women who were admitted with the disposs of dementia prayor and chorea. They were both treated and cured the one from endocervicitis the other from retrode viation of the uterus both of purepertlorigin and both were cured from the psychopythic symptoms permanently as there was no relayer after renewed uteranary and libor.

Watson General Peritonitis in Gynecological and Obstetrical Practice Canad J W & S, tota xxiii 125 By Surg Gynec & Olist

The author calls attention to the rarsty of general personates from pelvic lesions as compared with general peritonitis from other causes. This immunity is explained by the greater tissue reaction limiting the infection the less virulent type of the bacterial invision the small degree of visceral movement, and the low location of the pelvic peritoneum. The chief source of peritoneal infection is the Fallonian tube, with extension through the ostium by the lymphatics through the tube wall Accompanying this we have peritoneal adhesions When the infection is due to a gonococcus it has a tendency to die and to be replaced by a colon breillus, which eventually becomes sterile The chance of rupture of a pus tube is exceedingly slight, but owing to the high mortality when the rupture occurs the patient should be advised to submit to immediate operation. with an exploratory incision from below if possible, either draining the pus or removing the infected tube which is the source of infection should be made through the vault of the vagina and if the abdomen has been opened both vaginal and abdominal drainage is recommended

Conservative treatment of the tubes is sometimes

possible After the inflummation subades, the tubes may remain prient and the woman's procreative function thus saved. The author emphaises the importance of non-operative treatment during the acute infective state, and says that if necessary we must wen even months for the active form the state of the state of the state of the tubes of the state of the state of the state of the state of the state of the geococcur has tent in may be further than the state of the sta

Mention is called to the prophylactic treatment in purepral infections and to the fact that the vigina frequently contains potentially virulant misco-organisms and the author warns us given passing the hinds through this strip fell into the uterus after will preces of plenetts and membranes. He also insists that irrigition of the uterus sequilibrium of the uterus sequil

Sippel Difficulties in Gynecological Differential Diagnosis User differentialishagnostische Schwier igkeiten in der Gynakologie) Deutsche med II chr.

5thr 1913 XXXIX 163 By Zentralbl f d ges Gyn ik u Geburtsh s d Grenzgeb

One of the greates difficulties in procedured office metal dispenses. It is destroyed, before historica and a truck local trouble no re about the intrinal female genular organ. If it is impossible to elast more signs or a simptoms after repeated extinuations narrows will often help decide to which cargory the attent belongs. I he arrestreaments marrows will often help decide to which cargory the attent belongs. I he arrestreaments reflect the control of the control o

Improper localization of pain is another bugbers in generology. The elevated lithotomy position and greatly in doing away with this didicality. The author cites a recent case of teratoma in the left ovars that had been repeatedly diagnosed as missed abortion with the gestation sac in the right uterine horn.

Kostmayer and Gelpi Developmental Defects of the Female Genitalia Report of Five Cases. V Oricons M & S J 1913 hr 573

By Surg Gynec & Obst.

Out of 1000 women examined in the New Orleans Christy Hospital outdoor go, necological clinic, from May 1 1011 to hpril 10 1012 there were but fixe cases of gross fuelly or almorrand feet-copment of the grutalit — a little less than o g pt cent. The cases were all negroes and their ages varied from 18 to 35 were all negroes and their ages varied from 18 to 35 showed any signs of underfix-clopment or other almorrality than that of the centulus

The first case cited was that of absence of the labia minora and absent uterus. Case 2 had a uterus the size of a thimble—the organ was practicelly absent. The authors believe that the

005

ovaries were absent here also. The third case had practically the same uterine abnormality as Case 1 The fourth case was that of a transverse sentum dividing the vagina into an upper and lower cavity Case c had a longitudinal septum forming a double vagina The cases are tabulated as follows

Total Number of Cases Seen. 2000 Cases Per Cent

1 Deformities of the uterus due to failure of fusion of the Mullerian ducts

Deformities of the uterus due to faulty development of the Mulleman ducts

003 Deformities occurring lower down in the uro genital tract, affecting especially the 002 vagina

Cases showing more than one gross congenital 002 abnormality

Total number of gross abnormalities in the

The article is concluded by calling attention to the source of these abnormalities and their close connection with the development of the Müllerian ducts and the genital tubercle

Harm: Local Appenthesia in Minor Surgical Gynecology (Über Lokalanasthesie in der kleinen Operativen Gynakologie) Prag med Wchnschr, 1013, XXXVIII, 98

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Local anæsthesia should be more extensively used in minor surgical cases, not only in the office of the practicing physician, but also in his work at the home of his patients. For example, in cases of incomplete abortion of the first few weeks, when the os is insufficiently dilated, also when an abrasion is made in endometritis In this way dilation can be accomplished in one operation. The technique 15 Very simple a fresh r per cent solution of novocaine is made by dissolving 2 novocaine (o 125)—supraremn (0 00016) tablets in sterile 0 9 per cent NaCL The portio is brought into view by the aid of a self-retaining speculum, seized firmly with a forceps and 5 cc solution is injected where the anterior vaginal wall passes over into the portio (use a 5 cc Record syringe with a 6-8 cm tip) The needle is then inserted first 2 cm to the right (in the paracervical tissue), then to the left each instance the needle is plunged about 11/2 cm into the tissue Finally 5 cc are injected into the posterior vaginal port and in 5 or 10 minutes a pain less operation can be begun Should the patient be very sensitive, a 2 per cent solution of the nonpoisonous novocaine acts very well Hegars dilators work more satisfactorily with such an anæsthesia In eclampsia it serves a useful purpose for it prevents the sensory stimulation of these parts, and the os dilates more freely Such anæsthesia is practical in cases of vaginismus, dilatation during dysmenorrhoea and for the removal of hæmorrhoids (the sphincier dilates easily) An injection into the permeum before the head passes in obstetrical cases, not only brings about anæsthesia but prevents spasmodic contraction of the muscles A perineal tear can be sutured without pain Old perineal tears. colpoperineorrhaphy, operations on the cervix, vagina and labia are painlessly performed by the use of the novocain injections

In Kraatz's Alexander Adams operation 5 cc of a 1 per cent solution are injected 1 cm below and median to the spina ossis thi ant sup , directly under the fascize of the oblique muscle, 5 cc into the tissue about the internal ring (I cm above the middle of Poupart's ligament), and a third syringeful is injected into the inguinal canal (the needle is inserted below the fascia at the tub pubis and emptied in the direction of the canal) In 5 to 8 minutes anæsthesia of the parts is complete

Gaitschmann. Consental Absence of One Ridney with Anomaly of Development of the Genital Organs (Angeborenes Fehlen einer Niere [Agenesia renis] mit gleichzeitiger Wachstumsanomalie der Geschlechtsorgane) Russ Zischr f Geburish u Gyndk , 1913, xxvin, 69

By Zentralbl f d ges Gynak u Geburtch s d Grenzgeb

The nationt was well developed, 16 years old and a twin. For the last two years menstruation has been regular, but the last two periods were very painful and intermenstrual pain had also been com-The clinical diagnosis was uterus plained of The right bicornis duplex cum vagina septa vagina was obliterated in its lower part, a hematometra and hematocolnos dextra resulting sounding the right horn a quantity of old blood escaped, following which the temperature rose to 40° C (104° F) On the sixth day peritoritis set in, and on the ninth day death occurred At autopsy the intestines were found to be covered with fibrinoplastic exudate, likewise the genital organs the right side, however, was a hematopyosalpinx The cæcum was completely buried by adhesions The right kidney was absent, but the supraadrenal gland was in a normal location bladder had only the left ureter emptying into it

This anomalous development, according to Gaitschmann, is to be interpreted as a result of an inflammation during the embryonal period aplasia of the kidney was not discovered until auton-Gaitschmann advises first laparotomy with removal of hematosalpunx which can more safely be done than by emptying the hematocolpos through the vagina The hematosalpinx may tear or secondary infection may be set up in it by the latter method

Marro: Cystic Dilatation of the Terminal Portion of the Right Ureter, Emerging Outward into the Labia Majora (Dilatation kystique ter minale de l'uretere droit, prolabee en dehors des grandes levres) Gior d' R accad de med de Torino, 1012, lxxv, 197 By Journal de Chirurgie

These observations were upon a woman of 35 years who had had three confinements during the past eight years The first two were without complications Immediately after the third, she began noticing a projection from the urethral meatus Upon inquiring into the history, it was found that she had had difficulty in urination for four years. This difficulty would suddenly become relieved, when the pritient experienced a sensition as if something had slipped out of place. Upon examination of the external genitals, a turner was found flus was somewhat rounded and fluttered laterally edgive the impression of fluctuation. This striped give the impression of fluctuation of the fluctuation of the fluctuation of the striped give the impression of fluctuation. This striped give the impression of fluctuation of the fluct

repaired, starting at a point where the interiorcial muscle begins. This muscle strended around to the anterior surface of the distended part. There was no blocking of the right urefer. The left kidney could not be palpated but the right was low, large, and movible. During the operation, the contact traction of the distended part caused a small drop was a small under the properties. The contact was a small understead arts from which more puse could be squeezed. The catheter was introduced into the pelves of the kidney and to cubic row of pus

extracted
The catheter was left in the ureter and during the next 12 hours 200 cm of pus passed out. The pelvis could be washed through the same catheter. Gradually the amount of pus diminished from the right side and there was 900 as much unne coming from this aide as from the left. It was almost as rich in urates.

About a month after the first operation a more retenaive procedure was undertaken. Under spinal annexhesia a laparotomy was done. The dustended part was resected down to the bladder wall. The ureter was then sourced into the bladder wall by a crees of sources in a U shape. At the new opening wall was a smaller and reddened. The bladder was dead with the same of the control of th

In twenty-four hours after the operation there were about 100 grs of bloody urine passed. The irrigation of the ureter with a silver nitrate solution was continued.

At the end of three weeks the catheters were removed and the patient got up. Light days later there was no albumun or pus in her urine. She passed 1500 cc. of urine with 13 grs of urates

Seen three years after the operation, the patient was well and had no urmary trouble AMENITE

Rich- Treatment of Prolapse of the Bladder.

By Surg , Gynec & Ohst

Rich divides treatment of cystocele into two classes that for the young woman wishing to have more children, and that for the woman past the climacteric

For the first class he advises a dissection of the bladder off of the antenor vaginal and utence the header off of the heatenor vaginal and utence that then folding the broad ligaments over the utenu under the bladder, then fastening the bladder laterally as high as possible, removing the redundant vaginal walf and uniting it in the center of another operation which the author has done four times namely opening into the peritoneal cavity between the bladder and uterus, bringing down the round bigaments and stitching them to the vaginal

vault

For the second class, those in which the tubes
and ovaries can be resected, he advises the operation advocated by Watkins of Chicago

DICAGO

ELGENE CARY

Fehling Treatment of Vesical Weakness in the Femule (Zur Behandlung der Blasenschwache des Weibes) Med Alm., 1913, iz. 281

By Zentralbl I d ges. Gynak u Geburtsh s d Grenzgeb In a clinical lecture Tehling discusses the treatment of partial incontinence of the vesical sphincles Astringent irrigations, introduction of alum glycerine tampons (Fritsch) or zinc glycerine, (5 100) pessanes, especially Schatz's disc pessary with the convexity upwards, are to be recommended in mild cases The galvanic current up to 30 mamp, using a ball shaped cathode in the anterior vaginal vault near the region of the sphincter with frequent change of the location to avoid burns, and a plate shaped anode over the symphysis, with frequent change of current was efficacious in some cases l'arrafin injections and vibratory massage were not used by Tehling Lpidural injections according to Cathélia are recommendable Pituglandol, belladonna, or strychnine are usually not successful Many of the operations are uscless, some even dangerous, as for instance anterior colporrhaphy, excision of an oval piece from the urethro vaginal sentum, excision of an elliptical piece from the bladder or removal of a portion of the urethra Albarran's "Raffung" of the urethra and Gersuny's torsion of the urethra do not usually satisfy. The author recommends in cases of a combination of incontinence with vaginal prolapse an extensive anterior colporrhaphy with invagination of the posterior bladder wall. If this is not successful he advises the interposition of the uterus between bladder and anterior vaginal wall, making door like vaginal flaps with invagination of posterior bladder wall, resection of tubes for steri hization, and fixation of the uterus by sutures to the vagina. The urethra now lies entirely on the posterior surface of the uterus Bladder disturbances were not caused by the vagino firstion. A urnual must be employed in extremely intractable cases LAGER

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Desgouttes: A Case of Simultaneous Intra- and
Extra-Uterine Pregnancy (Un cas de grossesse l
tubaire coincidant avec une grossesse utérine) Lyon

chir, 1013, 12, 47 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Owing to the infrequency of such cases, the clinical record is given in detail 1900, abortion of one month, 1910, normal twin-

pregnancy, 1912, last menstrual period in April, in July violent colicky pains, unconsciousness, pallor, small and rapid pulse, discharge of bloody mucus, but no actual hæmorrhage This was followed by recovery Eight days later marked hamorrhage with the discharge of a distinct ovum As this hamorrhage persisted, patient was curetted eight days later, this was complicated by pains and slight elevation of temperature Diagnosis salpingitis Therapy rest, hot douches, ichthyol and glycerin applications In October of 1912 patient was referred to the author Examination revealed fair general condition, pallor, pains only on exertion, feeling of weight in the pelvis while sitting especially towards the rectum, no hæmorrhage but a few bloody fibers in the returned douche solution Vaginal examination uterus anteflexed, lying fixed to the symphysis, to the right of the uterus a large tumor, tender to touch and arching the pouch of Douglas forward A second examination, eight days later, tumor much enlarged and more tender to touch Since a distinct ovum was discharged the diagnosis of "graviditas tubaria rupta" was made, but not with much certainty Laparotomy was advised on account of the rapid growth of the tumor. The ruptured extra uterine mass, the size of a child's head, was attached to the left ampulla with the adherent tube directed towards the right side Removal of both tubes and the left ovary was done easily and rapidly An alarming post operative abdominal distention, with rapid pulse, was relieved by an enema that caused the passage of much flatus

Two facts of this history are worthy of special mention 1 The infrequency of a simultaneous utiliza and extra-uterine pregnancy and this patient? studency to two pregnances. Which of these pregnancies was interrupted first? The tubal, as it pregnancies would be concluded in the control of t

2 The acute gastro enteric flatulency and the marked diaphragmatic distention were alarming The differential diagnosis between this condition and peritoritis was easy, a simple enema produced

the desired results, making the contemplated gastric lavage unnecessary Powerce

Puppel Repeated Tubal Pregnancy (Wiederholte Tubargraviditat) Monatschr f Geburtsh u Gynök, 1013, xxxvu, 108 By Zentralld f d ees Gynak u Geburtsh s d Grenzgeb

As a result of his experience in tubal pregnancy, the author has come to the conclusion that addissions present before or developing after operation, are the cause of recurrent tubal pregnancy. While operating, he leaves only those tubes which are absolutely healthy. Hitzerh bas set up a "social indication," i.e., rather than expose a poor woming a normal one, he removes both tubes at the first operation. Puppel claims that the absolute surgical indications for extirpation are still in question and hence to bring the social standing of the patient into the problem only adds to the complications.

BAYER

McGuire: Extra-uterine Pregnancy Trans South Surg & Gynec Ass, Dec., 1912 By Surg, Gynec & Obst

Five cases were reported in which McGuire had operated a second time for extra-uterine pregnancy He quoted Richard R Smith, who tabulates 2008 operations for tubal pregnancy, in which recurrence followed in 113 cases, or 3 8 per cent He did not believe these figures represented the true frequency of the accident, as he thought it was impossible to follow up such cases accurately over a sufficient period of time to get final results. While he agreed theoretically with the rules laid down by Smith, he did not think they would prove of much service practically, as they left the decision of the question too much to the patient. A woman, just before an operation for ruptured ectopic pregnancy, was in no condition to understand or settle a complicated proposition. If she decided either for or against the removal of both tubes, she would in after life frequently regret the responsibility of the decision, fearing on the one hand a repetition of her former accident, or indulging on the other in morbid long ings for a child whose advent she had made impossible The operator should settle the question for himself, without taking the woman into his confidence, remembering all the time that a surgeon's and a patient's attitude to an operation are often very different, and that their estimate of the desirability of a baby are often very far apart. In deciding the question, the surgeon should try to put the patient in the position of a member of his own family E S TALBOT, TR

Sonnenfeld: Intact Tubal Preenancy After Extensive Intra-uterine Manipulations (Intal te Tubargraviditat trotz intra utennen Eineriffs und wiederholter bimanueller Untersuchungen nebst Be merkungen zur Diagnose der Tubargraviditat) Mo nalschr f Geburtsh u Gynak , 1913, xxxvu, 179

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author reports a case of intact tubal pregnancy with continuous hamorrhage and pain that had been diagnosed as intra uterine abortion in bed, hot fomentations, hydrastis, dilatation with palpation and curettage had no effect on the symp toms and only laparotomy revealed the source of hemorrhage — an intact tubal pregnancy He advises the use of the curette in differential diagnosis as a last aid, provided a laparotomy can be made at once, should the uterus prove to be empty. It is remarkable that the tubal pregnancy was intact after the repeated examinations and surgical pro-PONTICE cedures

Green. Transfusion in the Treatment of Ruptured Tubal Pregnancy. Boston M & S J By Surg , Gynec & Obst 1913, clxviu, 270

Immediate transfusion of human blood in the treatment of ruptured tubal pregnancy has been tested by the author in two cases here reported In the first case hamoglobin had decreased to 35 per cent. While the abdomen was being closed after removal of the ruptured tube, the patient was transfused for 25 minutes, obtaining blood estimated at 11/2 pints Convalescence was uninterrupted

In the second case the patient was transfused also while the abdominal incision was being repaired The flow was allowed to continue for 40 minutes. The author's conclusions are as follows

Direct blood transfusion is a surgical procedure of beneficence and value in the immediate treatment of ruptured tubal pregnancy associated with excessive hamorrhage and may be employed in such cases as soon as possible after the hamorrhage is checked, and under the original anæsthesia

2. Even if the patient's life is not in imminent danger, such transfusion in serious cases at least does no harm, minimizes shock and expedites con-

valescence

3 In the technique of transfusion, if the Elsberg cannula be employed it seems advisable not to apply a clamp proximally to the donor's artery unless the compression of the cannula proves insuffi-cient to control the flow of blood. It also seems advisable not to mobilize the donor's artery completely until the moment when the anastomosis is made, since by this method troublesome hæmorthage from minute arterial radicles may be avoided CAREY CULBERTSON

Stange-Concerning Eclampsia (Zur Eklampsiefrage) Zentralbl f Gynak, 1913, xxxvu, 298 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

On account of the newness of Abderhalden's reaction and the few facts which have been discovered by it, the author reports the results of two cases

of eclampsia in which scrum and placenta were examined by Abderhalden's technique of dialysis The scrum in both cases split off the placenta more readily than normally This, however, does not signify an increased splitting action on the part of eclamptic serum, as the placenta of eclampsia is always more strongly acted on by normal pregnancy serum The increased ability of splitting off of eclamptic placentas in comparison to pregnancy serum is a remarkable phenomenon and leads the author to the conclusion that the structure of eclamptic placentas, in biochemic and histologic respects, is looser than that of the normal placenta HIESS

Rissmann Is Eclampsia Curable by Intralumbar Infusions (1st die Eklampsie durch Ein spritzungen in den Ruckenmarkskanal heilbar?? Zentralbl f Gyndk , 1913, xxxv11, 196

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Rissmann assumes that the metabolic products during eclampsia act mainly on the central nervous system and can be reached by local treatment Intradural injections of 5 cc of a sterile, 15 per cent MgSo4 solution act very well. In a case re ported, one injection sufficed. Caution is given not to use larger doses FROMMER

Lutz. Treatment of Eclampsia (Zur Eklampsic behandlung) Zentralbl f Gynak , 1013, xxxvii, 204-By Zentralb! f d ges Gynak u Geburtsh s d Grenzgeb

The author summarizes the following statistics of the Urban (Berlin) Lying-In Hospital from 1900 to 1012 One case of eclampsia in 107 deliveries, 24 per cent of the eclampsia cases occurred during the puerperium. The maternal death rate was 6 7 per cent as a whole 9 per cent during the puer perium, 59 per cent before and during delivery The fortal mortality was 32 7 per cent, but excluding the postpartum cases, this rose to 36 per cent The customary treatment of inducing labor was followed, rather than making a vaginal Casarean The labors terminated 3 times spontaneously, 17 by forceps, 13 by version and extraction, 3 by perforation and 1 by vaginal Casarean section Venesection and morphine chloral were freely used The author advises immediate delivery in severe cases where the pulse is small and rapid, the urine scanty, and coma persists between attacks

ERRIER

Uthmblier Treatment of Eclampsia (Zur Behand lung der Eklampsie) Zentralbi f Gynak, 1913,

xxxvii, 305 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Venesection seems to be the best method of treating eclampsia. The author treated eight severe cases and had only one death Early delivery is the only procedure that shows a lower death rate. In six of the cases, all symptoms disappeared after one venesection France never abandoned venesection in eclampsia, whereas German obstetricians had discontinued the method, for the small amount of blood they drew off was not sufficient to have a beneficial effect. Method they drew described the delivery of the child, the author advises tenoving too to taoo cc of blood, especially when the blood pressure is high. The first step in the treatment is removal of the products of pregnancy, early delivery, under Stognaroffs arctosis. The author does not agree with Lichtenstein that puerperal eclampsia is a type of early delivery eclamps. GLOGISHENG

Rubeska: Normal Pregnancy Serum in Obstinate Vomiting of Pregnancy (Normales Schwangerenserum bei unstillbarem Erbrechen der Schwanger en) Zentralbi f Gynak, 1913 XXXII, 307 By Zentralbi f d ges Gynak u Gebursh s d Grenzgeb

Rubeska had a quadripara suffering from hyper

emesis gravidarum who had had two normal labors and one therapeutic abortion in the third month on account of obstinate vomiting. He injected on two consecutive days to and 20 cc normal pregnancy serum without any result. The vomiting became worse and pregnancy had to be interrupted.

He had another pattent 20 years old who had a spontaneous abortion three years before, the second pregnancy was interrupted during the third month on account of hypereness gravidarum Internat treatment was entirely unsuccessful during the another 40 oct of normal pregnancy serum into the median vein, and on the following day 55 cc intratenously and 5 cc intramuscularly without any success. Therefore this is not a positive remedy for obstinate vomiting of pregnancy. Payserr

Stolz: Hyperemesis Gravidarum (Zur Hyperemesis gravidarum) Zentralbl f Gynāk, 1913, xxxvii 90 By Zentralbl f d ges Gynāk u Geburtsh s d Grenzgeb

The touns formed during pregnancy act on the laready overstimed nervous system of susceptible pregnant women and cause the typical train of symptoms. The last recourse is termination of the pregnancy, but hypodermic or rectal injections of partopon, opium, etc. work excellently. Giving partopon, opium, etc. work excellently. Giving partopon, opium, etc. work excellently. Giving better the present a properties of the properties of the present and properties of the present a regular anternals—a procedure somewhat analogous to Stroganoff's clampsia treatment duress and in bringing about a speedy cure without harm to the child

O'Hara: An Interesting Case of Cæsarean Section. Austral M Gas, 1913 xxxni 121 By Surg, Gynec & Obst

O'Hara here reports the case of a full term pregnancy complicated by a hard fibroid of the anterior uterine wall which had become wedged in the pelvic outlet The growth was about the size of the fetal head and was treated by supravagnial hysterectomy following section for removal of the child The previous history of the patient was not uneventful She had married at 42 years of age, and had been treated ten years previously for excessive menstruation. Four months after marnage she complianted of painful, scanty menstruation, and was found to be pregnant, but some form of an abnormal growth was suspected. Fixe months later she was well advanced in pregnancy and a definite hard tumor was made out. At this time she had much pain, and opiates were required to ward off abortion. The latter months of her pregnancy were uneventful.

Carstens A Third Cosarean Section on the Same Woman Lancel Chn, 1913, Ctx, 205 By Surg, Gyncc & Obst

The author reports the case of Mrs J L, who is now 35 years old, on whom he has performed a Casarcan section three times in a period of three years. The second child ded twelve hours after delivery, probably from non closure of the foramen ovale. The woman made a smooth recovery in each case. He uses the ordinary technique in his sections, except that he ruptures the membrane if it is not find the discusses the question of sternlaining the woman, and draws the following conclusions.

1 In cases of Casarean section for bony deformities, with normal pelvic organs and ordinary health, we are not justified in sterilizing the woman 2 In cases of Casarean section for eclamosia or

2 In cases of Casarean section for eclampsia or placenta prævia we are not justified in sterilizing the woman
3. In cases of tumors of various kinds these

3 In cases of tumors of various kinds, these should be removed at the time of operation, if possible, and the woman not sterilized

4 In cases of multiple fibroid tumors, where they cannot be enucleated hysterectomy is indicated 5 In rare cases where constitutional conditions such as tuberculosis, ctc., exist, sterlization may

not only be justified but actually indicated

C H Davis

Zoeppritz New Methods of Casarean Section

(Neuere Kaiserschnittmethoden) Klin therap II chn schr 1913 xx, 141 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Brilliant results of corporeal Cæsarean section can be attained if the operation is only executed in completely aseptic cases, nonaseptic cases which have been examined outside of the hospital should not be terminated with the corporeal Casarean Perforation of the living child or, with absolute indication, the Porro operation should take its place To be able to execute Casarean section and to extract the living child in suspicious and unclean cases several methods were recommended, Frank's cervical Cæsarean section, modified by Latzko-Doderlein, or the establishment of a utero-ventral fistula according to Sellheim author further mentions the modifications by Veit and Polano and the lumbar incision of Solms-Duhrssen All these methods have the disadvantage

that they are not completely sale operations for the mother but favor the child. The prognoss of the cervical Casarean section cannot be improved by the perfection of the technique but by the progress of bacteriologic drignoss which teaches the degree of svirulence of the bucterium in the case in question. The cervical Casarian section will replace the corporation are also in clein cases. The advantages of the former are the alsolushment of adhesions between uterius and aldominal wall, more favorable scars in the abdominal wall and firancess of the uterium scar. The drividualizes are the long duration of the operation, higher inflant mortality and greater technical difficulties.

Judd Caesarean Section and Porro Caesarean Operation. St Paul M J 1913 2v, 70

By Surg Connec & Obst In enumerating the chief indications for the Czsarean operation we should first consider the contracted and deformed pelvis It was formerly believed by most obstetricians that Casarean section should be chosen as the method of procedure when the true conjugate was 7 cm or less, but with the added safety of improved technique, it is now generally believed that this method should be chosen if the dimension be 9 cm or less. It is not so important to determine the exact dimensions as it is to know the disproportion between the pelvic passage and the head of the fortus which must pass through it Neoplasms of any of the pelvic viscera which may interfere with the natural labor is also a reason for selecting the Casarean operation, since the tumors may be removed at the same time Various observers believe it to be the safest plan in. cases of central placenta pressa and in some cases of eclampsia. If there be a choice of the time to operate, it is best to wait until labor has begun One of the principal contraindications to the opera tion is the shightest suspicion of uterine infection The results of the operation will be less favorable if there have been repeated vaginal examinations of attempts to deliver through the vaging Uncon trollable ha morthage is said to be an indication for removing the uterus In none of the cases observed in the Mayo clime was the hemorrhage severe enough to warrant this procedure. In cases of multiple fibroids, however, coincident removal of the uterus is often advisable The technique as described by Davis and Markoe has been used in the Mayo clinic most satisfactorily. In the group of 12 cases operated on the Markoe Davis method was used in 7, the Sanger in 1, and the Porro Cæsarean in 4

Raumm: Experiences with the Extraperitoneal Cravrean Section (Frdahrungen über den eutra pentonealen haiserschmit) Deutsche med Wichn schr, 1913, 22115, 221 By Zentralbli d ges Gynak u Geburtsh s d Gerenzeb

By Zentralblf d ges Gynak u Geburtsh i d Grenzgen Report of 100 Crestrean sections of which 50 were performed extraperitoneally and 50 transpersoneally Primary union was obtained in attranspersioned and 27 estrapersioned cases. Delayed healing occurred in 21 cases of each type Death took place in 3 cases of transpersioned operation, in 1 extrapersioned case and in 1 eclamptic, a total mortality of 4 per cent on account of infection, not counting the case of (clampia)

Conclusions the extraperitoneal suprasymphyseal section is three times as safe as the transperitoneal The transperitoneal method shows great superiority in infected cases with foul smelling liquor amnu and fever, 12 cases of extraperitoneal operations resulted in recovery, whereas among the 10 transperitoneal cases a deaths occurred Severely infected cases are therefore not adopted for the method as the extraperitoneal operation cannot be safely executed in all cases without opening the peritoneal cavity unless the life of the child justifies the 8 per cent maternal mortality The suprasymphyseal section can only be carried out extraperstoneally in 2, of the cases Cases which do not show a fever or infected uterine contents, show the same maternal mortality in extraperitoneal as well as transperitorical operations-about 2 per cent Technique median or transverse incision the latter in only absolutely clean cases bladder is pushed to right or left without cutting the lateral vesical herments of thomas of certain and lower uterine segment delivery of child with forceps, during extraction pentoneum is frequently torn. Immediate expression of placents. Catgut suture of uterus in two livers Drainage of abdominal wall with glass drain in clean cases with profuse wound secretion in infected cases the same drainage in conjunction with vaginal iodoform drain. Operation is perferably performed after effacement of cers ix but it is not absolutely necessary Complicafour bladder tears one vesico abdominal tions wall fistula and quases of femoral thrombosis due to injury of pelvic connective tissue. All healed without any scrious results. The uterine scar did not cause any disturbance in subsequent deliveries or operations. In one case a third (astream section became necessars which was performed classically as tubal sterilization was deemed advisable. For the benetit of the children the author advises against delaying the operation too long even if the heart's action is good. Two children were lost Three other deaths were aton that account tributed to lumbar anasthesia-decrease in heart sounds under 100-due to injection of 5 per cent tropacocaine solution The suprasymphyscal Casarean section is a valuable addition to our obstetric surgers - superior to the classic (assrean section and publictomy and also induction of premature labor as far as the mother is concerned

Schwartz Management of Pregnancy and Labor In the Presence of Pelvic Contraction Lauce-Clin, 1913 Cix 200 By Surg, Gynce, & Obst

The author urges an educational campuign, both among the laity and the profession, to impress upon them the necessity of medical supervision for all pregnant women, by showing how it prevents many of the gravest complications and permits the early detection of pathological conditions, enabling us to meet them in good time This work is aided at Washington University by the employment of prenatal nurses, who instruct expectant mothers in the hygiene of pregnancy and have them report to the obstetrical dispensary at stated periods

Routine pelvic measurements are taken in all cases, and pelves are classified as normal, moderately contracted, or highly contracted As moderately contracted he classes pelves with a true conjugate of from 8 to 10 cm , under 8 cm they are highly contracted The particular form of contraction is of little practical importance, the question being, is there sufficient space for the safe passage of a viable

child

Cases of moderate pelvic contractions in primiparous women in which the head has failed to enter the pelvis a week before term should enter a hospital and be given the test of labor, if this test fails they should be delivered by publictomy

Cases of moderate pelvic contraction in multiparous women with a record of craniotomy, high forceps, or publotomy should enter the hospital six weeks before term and be delivered by artificial

premature labor

Cases of highly contracted pelves should enter the hospital near term and be delivered by Cæsarean

In the discussion Davis questioned the advisability of publotomy He stated that he had never performed the operation and that he has never seen a case where it was an easier or safer operation for the mother, that it is not a suitable operation in the presence of sepsis, and that without sepsis the Casarean operation is simpler and better

C H DAVIS

Cathala: Ovarian Cyst and Pregnancy (Kyste de l'ovaire et grossesse) Sem gynec, 1913, 1vin, 17 By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

In this case the diagnosis of an ovarian cyst wedged in the pouch of Douglas was made during the eighth month of gestation. An operation at term, before the beginning of labor, was decided upon A living child was delivered by Cæsarean section and the uterus was drained per vagina Uterine atony was complete and was not relieved until the cyst was excised, this atony the author attributes to the presence of the ovarian cyst wedged in the pouch of Douglas PENKERT

Ohman: Case of Uterus Bicornis Unicollis with Full Term Pregnancy in Right Cornu (Ett Fall af uterus bicornis unicollis med fullganget hafvandeskap i det hörgra hornet) Finska lak sällisk handl , Helsing fors kapets Handlinger, 1913, lv, 10 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

After a short discussion of the possibilities of a full term pregnancy taking place in a uterus bicornis

unicollis, the author reports the following case, A 22-year old woman was admitted to the chinic in February, 1912 First menstrual period began at age of 18, since then was regular twice a month until patient became pregnant after her marriage in 1910 In May, 1911, premature labor occurred during seventh month On February 9, 1912, a hæmorrhage from uterus took place and patient consulted a physician who sent her to the clinic with a diagnosis of extrauterine pregnancy. Moderate hæmorrhage, pains in small of back and pelvic floor. As the history and the himanual examination seemed to confirm the diagnosis of extra-uterine pregnancy, a laparotomy was undertaken and it was found that neither an extra- nor intra uterine pregnancy, but a uterus bicornis unicollis, existed Abdomen was closed and woman was discharged within ten days May, 1012, the author was called to the woman, who complained of severe pains in lower abdomen and some bleeding from the uterus Last menstruation occurred a short time after discharge from clinic Bimanual examination revealed a pregnancy in the right cornu of the uterus. On account of the pain and hamorrhage a threatened abortion was suspected Patient was put to bed and given tr. After twenty four hours hamorrhage and pain ceased Pregnancy went undisturbed to full term and the woman was admitted to the clinic Labor lasted twenty six hours, probably due to the fact that the left cornu prevented engagement of the head at the inlet examination revealed the left nonpregnant horn at the inlet to left of promontory of sacrum During course of labor, bag of water appeared externally at the vulva and was artificially ruptured After rupture of the bag the left cornu receded upward and with three pains, within twenty nine minutes after rupture, the child was born 3750 gm Author comes to the same conclusions as Richter and others before him that in cases of uterus bicornis unicollis, pregnancy as well as labor usually terminate spontaneously and that the danger of rupture of the uterus is decidedly rare We therefore may, according to the author, let the pregnancy take its normal course and await spontaneous delivery rather than resort to premature operative interference BJÖRKENHEIM

Abramowitsch and Schor. A Case of Hæmorrhage from a Gravid Uterus into the Abdominal Cavity (Em Fall von Blutung aus gravidem Uterus in die Bauchhole) Russ Monalschr f Geburish u Gynāk , 1913, xxviii, 113 By Zentraibl f d ges Gynāk u Geburtsh s d Grenzgeb

A patient 38 years old, who had been married 14 years, and had 6 labors, with 4 manual removals of placenta, again became pregnant. Labor-like pains suddenly developed and the abdomen became very much distended, the patient dyspnæic, pulse An exploratory puncture of abdomen showed blood During laparotomy an opening was located in the posterior uterine wall covered with coagulated blood. The uterus was opened and delivered of a The placenta being firmly adherent, living child supravaginal hysterectomy was performed followed by recovery Pathologic examination, the opening communicated with a large vein. The uterine wall at this place is 04 cm. thick, with thin muscular fibers badly degenerated and partly replaced by connective tissue In the network of fibrin uni and polynuclear cells rich in chromatin were found The same cells were seen beneath the endothelium and in the lumen of the vessels. A proliferation of the chorionic conthelium and its penetration through the uterine wall occurred in this case, leading to decrease in thickness and perforation accord ing to Abramowitsch GINSRI RG

Dor and Moiroud: Hematuria During Pregnancy (Uber Hematurie in der Schwangerschaft) Allg Wien med Zeit, 1913, Ivis 60

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb The patient, 5 months pregnant, ill with typhoid fever, suffered with hematuria A spontaneous abortion occurred and with it a disappearance of any admixture of blood in the urine The typical hematuria of the pregnant can only occur in women who have never had signs of urogenital disease during the nonpregnant period. The hematuria as a rule appears during the last four months of preg nancy, continues for several days, at times also months, or is intermittent Besides the bleeding no other symptom of disease of the urinary apparatus exists. The hemorrhage may be of vesical origin due to the formation of varices in the bladder on account of stasis or the special vulnerability of the vesical mucous membrane in consequence of the retention of urine and cystitis It may be of renal origin, congestion also being the chief causative Diagnosis is positive if all other discuses of the urmary tract can be excluded The prognosis is favorable for the majority of cases Treatment with slight hemorrhages and those of renal origin rest in bed, lowering of head of bed, antiseptic vesical irrigations to prevent infection. In vesical hemorrhages are compresses to the hypogratrium, instillations of adrenalin sol 1 10,000 or vesical irrigation with boric acid solution followed by in stillations of silver nitrate 1 100 Premature de hvery is indicated in extensive renal hæmorrhages GRUNNSON

Tissier: Therapeutic Abortion and the Law
(I asortement therapeutique et la loi) Arch mens
dobt et d gynte, 1913, in 52
By Zentralb f d ges Gynak u Geburtsh s d Grenzgeb

After heefly sixtung the universally acknowledged necessity of therapettic aboutton in certain principle for conditions of the mother. Tasser emphasizes conditions of the mother. Tasser emphasizes that the mother than the purpose "as per 317 of the 1804 edition of the 1 reach "Legal Renalizes," the new chitten of 1810 and the revised edition of 1813 make every artificially induced abortion punishable. The

physicin's gratitude is due to the "intelligent tolerinee" of the circ authorities for not insisting on a criminal investigation of each case. Since the law cannot be called upon to protect either the physician or the mother in the justification of an imperative operative interference, Tissers advises that in very case a consultation with several colleagues be held and that a written report beginn the authorities, setting forth in detail the necessities for such artificial abortion. Tissers admiss that such a procedure is contrary to the law of profession all secrecy.

Schottländer: Determining the Duration of Pregnancy by a Histological Study of the Placenta (Der die Bestimmung der Schwanger schittelauer auf Grund histologischer Placentarbe funde und über etware praktische Verwerbarkeit dieser Befunde) Zeutralbl f Gynak , 1913, atxiu,

By Tentralid I d ges Gynak u Geburtsh s d Grengeb Schottlander and Jagernos will soon publish a more lengthy paper on the above subject. In this work the tables of Keibel and Mall are used in determining the length of the embry

Group 1. One to three months of pregnancy. The main and mdagnosis is the presence of nucleated explinocytes. I he vills are far apart, the cells of the trophoblast are sharply outlined and have large nucloi, and the syncytum contains much plasma. (I) to the sixth week, there are only nuclearly the contains the contains of the nuclear has a contained to the nuclear than the contained the nuclear has desappeared from the explinocytes.

Group 2 Fourth and fifth months. The villa are closer logerher and the stroma contains more cells. The trophoblastic cells show fibrinous de generation and the spicytum is not sharply differentiated. The double epithelium of the chorion disappears in the fifteenth week, and by the seventeenth week the trophoblast cells disappear entirely

Group 3 Suth to tenth month. The vall is as maller and more numerous, the intervilous spaces are filled with blood the tophoblastic trabeller are seen numerous the storm of the chornone valls it fairlikes and the syncytum contrains very lattle fairlikes and the syncytum contrains very lattle placents of the eighth and tenth months are not very pronounced—the storma is harder, the syncytum contains more nucled and the trabeller are rare in the tenth month a harder for earn to the detected in placents with the vundergone cannot be detected in placents with this vundergone or indimmnation. These investigations are of and not termining the duration of pregnancy. Bernin's

Jeanselme Salvarsan Treatment of Syphillic Women During Pregnancy [Du traitment par le salvarsan des femmessyphilitques en état de gesta tion] Ann de synfe et debit, 1913, 18, 27 By Zentralbi f d ges Gynäk u Geburtsh s d

Jeanselme reports the cases of 18 luctic pregnant women he treated by salvarsan injections with OBSTETRICS 555

favorable results The full clinical history is given with each case Sixteen of these women manifested symptoms of secondary syphilis at the time of treatment The periods of gestation when treatment was begun were as follows One at 41/2 months, three at 5 months, four at 6 months, six at 7 months and two at 8 months Fourteen of these patients gave birth to living children free from any syphilitic symptoms - one child of 73/2 months, six between 8 and 81/2 months and seven were o months Four of these children died - one on the oth day, of scleroma, one on the 17th day, of erysipelas, one on the 79th day, of enteric disease due to faulty nourishment, and one after 4 months, of diarrhora It is the opinion of the author that not one of these deaths was due to the syphilitic history In three cases, the Wassermann test was made of maternal and of infant's blood on the third, twentieth and twenty seventh day after labor. In three other cases, like comparative tests were made, using the blood taken from the umbilical cord The author does not present any conclusions from this series, as all the reactions were not typical and not all cases showed the same results in the mother's and her child's blood There were two cases of still-births one (of 6 months) died during the time the salvarsan treatment was being given, in the second case (8 months) only one injection of 0 30 g salvarsan could be given before labor In both these cases the author believes insufficient treatment to be the cause of death Labor was normal in all the sixteen cases, there was no hamorrhage, and the weight of the placenta in comparison with that of the child was in nearly every case greater than normal (1/6) In addition to these sixteen cases, Jeanselme administered the salvarsan treatment to two other pregnant women who, according to his best recol lections, had previously aborted and had still births Both these cases were syphilitic according to histories and Wassermann tests and both gave birth to hving and apparently healthy children. In one of these cases the postpartum Wassermann was negative in both mother and child

The good results of his salvarsan treatment Jeanselme ascribes to the carefully studied dosage of salvarsan intravenously injected and regulated according to the exact condition of the patient's general health and especially of the renal functions (albumin) Jeanselme begins with 0 20 g and after 8 days increases to 0 40 g — giving 5 or 6 injections in all If this treatment is given very early in the course of the disease a second series of injections is given after several months When albumin appears in the urine the author decreases the dosage

to o to g per injection Excepting uterine colic in some cases and increased fortal movements in others, Jeanselme has never seen any harm resulting from these injections The author urgently advises this treatment, especially on account of the constantly decreasing birth rate

in France, expecting at least to prevent the loss due to hereditary syphilis VASSMER

Hoehne: Some Important Questions in Gynecolony and Obstetrics: Tuberculosis and Pregnancy; Genital, Peritoneal and Uro-Tuberculosis of the Female; Hæmorrhage Late in Pregnancy and Intra Partum, Especially Premature Severing of the Normally Located Placenta and Placenta Prævia (Über einige aktuelle Fragen der letzten Jahre auf geburtshilßich-gynakologischem Gebiete, Tuberkulose und Schwan gerschraft, Gental-, Perstoneal und Uro-Tuberkulose des Weibes, Blutungen bei vorgeruckter Gravidi tat und intra partum, insbesondere vorzeitige Losung der normal sitzenden Placenta und Placenta praevia) Med Klin, 1913, 1x, 23 By Zentralbl f d ges Gynal, u Geburtsh s d Grenzgeb

Tuberculosis and pregnancy In regard to inducing

an abortion, the author suggests that it is unwise to advocate either extremes Each case should be carefully watched by the internist as well as by the obstetrician. In severe cases it is probably best to castrate and then send the patient to the sanatorium

Tuberculosis and the female urino-genital apparatus It is not possible to diagnose tuberculosis of the adnexa for even the tuberculin reaction cannot be relied upon Tuberculosis of the mucosa of the uterus can be determined by microscopic examina tion of scrapings or by the biological test. There is always some danger connected with curettage Carcinoma and genital tuberculosis sometimes coexist. In cases of ascites where tuberculosis is suspected, an incision substantiates the diagnosis and 30 cc camphorated oil can be poured into the abdominal cavity before closing the incision. In cases of unilateral renal tuberculosis it is best to excise the diseased organ, should the condition of the patient permit such a procedure

Premature loosening of the placenta Such cases are not very rare, especially when we include partial separation The prognosis for the mother is not bad, as a rule, but the infant mortality is extremely high The main etiological factors are the toxicoses of pregnancy whereby the decidua insertionis undergoes changes and the attachment of the placenta is unpaired The treatment for such cases is induced labor, version, vaginal Cæsarean section or ab dominal total extirpation Every case of placenta pravia should receive active treatment as soon as it is diagnosed or even where it is surmised. The treatment is rupture of membranes, metreurynter, pituitrin or version of Braxton Hicks (the version especially in case of dead child or non viable foctus) In severe cases of anemia the best operation is abdominal total extirpation. In some cases hyster otomy vaginalis anterior or the abdominal Casarcan section is more valuable HEUCK

LABOR AND ITS COMPLICATIONS

Voll. Painless Deliveries (Schmerzlose Entbindungen) Munchen med Wehnschr, 1913, lx 300 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

According to the author, it is not advisable to use light anæsthesia during labor, at least not in private practice, since one must rely upon the coportation of the woman. He agrees with Jaschke in demanding that the state of consciousness be preserved. Injections of morphine are desirable in order to diminish suffering. The pains occur less frequently but more effectively. The soft structures are better prepared, even the passing of the head can be rendered paniless by making an injection of occaine with adrenalm or supraremm into the perineum, which is not endangered by this procedure

Hüffel: Management of Labor in Contracted Pelves (Zur Geburtsleitung beim engen Becken) Fortschr d Med., 1913, xxx, 148 By Zentralbi f d res Gynak u. Geburtsh s d. Grenzeeb

It is of paramount importance to interfere with spontaneous delivery as little as possible Induce premature labor only in women who cannot or will not undergo a major operation later Do not induce labor before the thirty-fourth week or where the conjugate vera is below 7 5 cm Avoid prophylactic version and use the high forceps rather than perforation Women with a diagonal conjugate below to cm should be delivered in a hospital In contractions less than 10 cm rupture of the membranes often does wonders Publiotomy and symphy siotomy have lost adherents through too frequent complications. The best procedure is extra or transperitoneal Casarean section the incision being made low down in the cervix Use the former combined with drainage in questionable cases. It is impossible to discriminate between slightly infected and contaminated cases. In febrile cases, experience and intuition tell one whether the Porro operation or

perforation should be performed. The author reports a case in which the membranes had ruptured a8 hours before the Casarean section was performed. The flund was turble and few had set in Mother and child did nucely. In a subsequent pregnancy, perform Casarean section and remove the tubes. With telephone and a since the communication of a living child is at the word of the communication of a living child is at the properties of a living child is at the communication of the communication, so that the physician can decide whether the delivery should take place in the bome or hospital.

WACNER.

Snoo Rupture of Uterus Occurring at Three Different Times in Same Patient (Dnemal uterusrupturu by detelde vrouw) Trans Niedri gmac Ger , 1013, Jan By Zentralb I d ges Gynak u. Geburtsh s. d Grenzgeb

Multipara, 41 years old, rachitic pelvis, conj vera estimated at 775, three labors with version and extraction, fourth labor premature and spontaneous, child hiving. Fifth labor combined cephalic version, volent pain, head proceeds, labor pains cease Child lies in the abdominal cavity Extraction by feet. Child 2450 g. dead Extensive tear in the

lower uterine segment Tamponade Compression bandage, convalescence without fever Sixth labor a year later (1908) Brought to clinic without pains on account of hæmorrhage Fundus at the costal arch, anterior to it a mass in which parts of fortus are plainly palpable Sac intact, cervix effaced. child is extracted through the rupture by combined version, is deeply asphyxiated, weighs 2060 g, dies soon Tamponade, normal puerperium Seventh labor should have been terminated by Casarian section and artificial sterilization, but patient was unexpectedly taken with pains, at home, and could not be brought to climic Podalic presentation, hebosteotomy, head delivered with forcers. Child hving 2320 g, normal puerperium Eighth labor a year later Cæsarian section and sterilization was to be performed in the 16th week. Two days prior. patient entered hospital, walking, because she had lost some blood On the way she experienced violent pains The child was lying to the right of the empty uterus Forceps were applied to the receding head, child hving, 2040 g, a large tear in the right lower uterine segment communicating with the broad ligament slight hæmorrhage, tamponing of the tear, normal puerpersum. Patient should have returned for an artificial sterilization after two months, but she remained away A permanent enlargement of the pelvis by the hebosteotomy could not be demonstrated

Skeel Station of the Presenting Part in Labor.

Cleveland M J, 1913, XII 119

By Surg , Gynec & Obst By the term "station" the author refers to the level at which the presenting part is found in the parturient canal, following Muller's suggestion and Bacon's paper of 1903 For the sake of accuracy it would seem best to describe the station of the head according to the location of its greatest participating curcumference In vertex cases this would be, of course, the suboccipito bregmatic, accordingly, when the plane of this circumference coincides with the plane of the inlet the head is stationed in the inlet Considered as a passage way for delivery, the parturient tract consists of a curved canal constricted at three levels, with three dilated or dilatable portions These last sections are the uterine cavity, the pelvic cavity, and the vulve vaginal canal the constricted points being the obstetric pelvic inlet, the obstetric pelvic outlet, and the vulvo vaginal outlet Hence there are six principal stations, and any variety of head presentation would be considered as located at a certain station when its greatest participating circumference is at that station The author regards our customary phraseology, such terms as "fixed head." "engaged head." "head on pelvic floor," etc , as loose and unscientific, whereas the exact station of the presenting part is of importance co-ordinate with presentation and The practical application of station, however, comes in best in operative procedures

Thus, Skeel considers forceps rarely indicated with

the head above the pelver inlet. Station I according to the diagram At Station III version and Cessarean section are rarely indicated and forceps extraction as still a sensor procedure A Station III forceps is the only method of delivery likely to be necessary, version or Casarean section being out of the question. The author's conclusion is that the exact station should always be carefully considered before deciding the treatment in any case of deliaged labor.

Westphalen: Lateral Position During Delivery and its Effect on "Endogenous" Infection (Setenbage intra partum und "endogene" Infection (2007) Zenhalbl f Gndh, 1013, xxxvii, 280 Experts of the George of George of George

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb It is possible that the negative pressure in the

It is possible that the negative pressure in the ulterus by delivery in lateral or side position is so great in some cases that air rushes in just after delivery. It is not impossible that such air is contaminated and this might explain some of the cases of "autonifection" occasionally encountered.

FRANKENSTEIN

Gussakoff A Retrocervical and Extraperitoneal Echanococcus Forming an Obstruction in Labor (Retrocervicaler extrapentonealer Echano kokkus als Geburtshindernis) Arsic-Zeil, 1913, xx, 6 By Zentalbi i d ges Chir u i Grenzgeb

A noman n labor, 20, ears old, had a retrocervical tumor which proved an absolute obstruction to the passage of the feetus. The writer performed a postenior colpotomy, during which the capsule of the tumor tore and a clear fluid exuded which contained several vesicles of the size of a hazel nut. He assumed that these were echnosocous cysts and therefore took great care in removing all the daughter cysts and subsequently tamponing the capsule that the size of the contained with zeroform gauze. Labor thereupon proceeded in a natural way by the use of forceps. In the third week of the puerperium it was possible to remove the capsule in its entirety. The pattent left the hospital later in perfect health. Hoss?

Zubrzycki. Hæmatoma of the Vulva Occurring During Labor (Fine während der Geburt entstan dene Blutgeschwulst der Vulva) Zentralbi f Gyndk, 1013, XXXVII. 274

1913, xxxvii, 274 By Zentralbi f d ges Gynak u Geburtsh s d Grenzgeb

Duning the course of labor in a multipara a hemations formed with increasing anemia of the patient which developed in the left vaginal wall, as a fastually increased to the size of a man s head, and almost completely closed the vagina. The wall of the tumor, of the thinness of paper burst during the examination Marter vacuusion of a large mass congulated phood a profuse homorrhage occurred resourced to the patient of the p

ity was packed with iodoform gauze and the incision partially closed by suturing. Healing was spontaneous. The author advocated expectant treatment in smaller vulvar hematomas, but in larger ones he advises active treatment analogous to his case. Krens.

Baughman. Protection and Repair of the Perineum J Am M Ass, 1913, k, 351 By Surg, Gynec & Obst

The following plan for protection of the perineum in vertex cases was outlined by the author, who had used it in delivering 43 primiparse, with 3 tears, and in delivering 57 multiparæ, with 2 tears The cases were delivered in the lithotomy position, hands protected with rubber gloves and parts bathed with sterile pledgets moistened with solution of cresol, the vulva was pushed back from the head during pains and the head flexed with the hand As soon as the vertex or the bregma passed from under the symphysis the legs were extended and the thighs rotated inward, bringing the buttocks as close together as possible and still leave a place to If more stretching tissue were needed, the hand grasped the fleshy part of the buttock and drew it together. In this way more stretching skin and muscles were available

If the patient should tear in spite of these precautions, then the repair is done at once, if the light is sufficiently good. The plan here adopted is the one

outlined by Robins in 1000

The vaginal sheath is sewed up with a continuous chromicated catgut suture. After the vaginal portion has been united, crown sutures of silknorm gut are passed from the skin surface in ward and downward to take in the muscles and fascia. Afterward these are taken up and the skin of the perneum is united with a continuous suture.

Gisel The Action of Pantopon and Pituglandol in Obstetrics (Über die Wirkung von Pantopon und Pituglandol in der Geburtshilfe) Zentralbl f Gynak,

1913, ZEXVB, 167 By Zentralbi f d ges Gynäk u Geburtsh s d Grenzgeb

The combined use of pantopon and pituglandol is of value only during the period of expulsion and not during that of dilatation or in the third stage With correct use excruciating pains, tetanus of the uterus, or asphysus of the child are not to be feared Atony in the third stage must be treated with secacorium FARNESSIEN STANESSIEN.

Linzenmeier Pituitary Extracts and Hebosteotomy (Die Bedeutung der hypophysen priparate für die Hebosteotomie) Zentralbi f Gynak, 1913, xxxvii,

By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

The senous injuries to bladder and vagina, so often seen in publictomy followed by forceps delivery, have given rise to the rule, "After hebostotomy await spontaneous delivery" Waiting, however, adds danger to the child In two such

cases the author made use of injections of pituitary extract and spontaneous deliveries followed within a very short time without lacerations. Pituitrin pituglandol and cerephysin are all good preparations

Pituitary Extract in Delayed Labor Stolper (Hypophysenextrakt und Spatgeburt) Zentralbl f Gynak , 1913, xxxvii, 162

By Zentralbi f d ges Gynäk u Geburtsh s d Grenzgeb Case 1. A multipara, 27 years old, whose first

child was delivered 20 days after term. This preg nancy was 12 days overdue and no pains had developed The author gave three injections of x cc pituitrin at two hour intervals and strong contractions set in after the second injection delivery occurred within five hours of the third injection Case 2 A multipara 30 years old first two deliveries were forceps cases, the third a placenta prævia and the present pregnancy was fourteen days overdue. She had had some pains but after giving four injections of a cc pituiglandol within six hours the pains became more pronounced and a normal delivery occurred six hours later

HAPPICH Rudaux: Sudden Death During Parturition (De

la mort subite pendant l'accouchement) Clinique, Par , 1913, vm, 82

By Zentralblí d ges Gynäk u Geburtsh s d Grenzgeb

The author discusses fully the deaths during labor and enumerates the causes as follows Rupture of the uterus, hæmorrhage in cases of placenta prævia, premature separation of the normally placed placenta from the endometrium, varices of the vulva or vagina, lacerations of the clitoris, etc., others are non compensated heart diseases, pathologic conditions of the respiratory organs (as hemoptysis in pulmonary tuberculosis), brain embolisms, cerebral hæmorrhages, eclampsia and shock After a sudden death sub partu the child should be removed at once per vias naturales Cæsarian section is not necessary The causes of sudden death during the placental stage of labor are, in addition to those mentioned, inversio uteri and vaginal or intra uterine douches The same causes are operative in deaths occurring during the first few hours after labor The deaths resulting from intra uterine douches are not due to air embolism, in the opinion of the author, as he doubts their occurrence author believes the shock incident to marked changes in blood pressure to be the true cause of FRANKENSTEIN such deaths

Usener Rupture of the Umbilical Cord (Uber Nabelschnurbruch) Jahrb f Kinderheilk, 1913

lxxvn, 181 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author adds twenty-nine cases collected from the recent literature and two of his own to the 143 collected in 1906 There are two causes for rupture of the umbilious r Mechanical (a) A tension

outwards, persistence of the ductus omnhalomesentericus (Ahlfeld's theory) - present in one third of the cases, the umbilical cord is abnormally short (b) An abnormally increased abdominal pressure with dorsal concavity of the vertebral column (Aschoff) --- intra-abdominal tumors 2 True embryonic anomalies (Reichel and Kermauner) Reichel claims that part of the primitive groove behind the cloaca closes in a pathological manner A radical operation is advisable in cases of per sistent ductus omnhalomesentericus cases should be closely watched so that an ileus or gangrene can be operated post haste. The author then considers two cases he operated on, with one cure and one death Of the other twenty-nine cases twenty-one were operated on, seventeen successfully REBER

Reber Treatment During the Third Period of Labor (Zur Behandlung der Nachgeburtsperiode) Cor Bl f schweiz Arzle, 1913, xlm, 225

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

There are four methods in use

(1) The French (traction on the umbilical cord) (2) The Dublin (wast, but keep hand on fundus) (3) The Crede (expression after half an hour)

(4) The Ahlfeld (do nothing until the placenta is free)

The clinic at Bern prefers the Dublin method and only in cases of atomic hamorrhages is the placenta expressed, in serious cases by the aid of narcosis If this does not bring the placenta, then manual extraction is resorted to. The Credé method had been used at Bern, and comparing results, Reber finds that manual extraction was necessary in 4.3 per cent of the cases when Crede's method was in vogue, whereas it has dropped to 1 8 per cent with the Dublin method

The fear that the midwife will be led to massaging the uterus unnecessarily by the latter method is unauthentic FRANKENSTEIN

PUERPERIUM AND ITS COMPLICATIONS

Transott and Goldstrom Bacteriologic Examination of Vaginal Secretion of Parturient Women and its Prognostic Importance for the Course of the Puerperium (Uber die baktenolog ische Untersuchung des Vaginalsekretes Kreissender und seine prognostische Bedeutung für den Verlauf des Wochenbetts) Zentralbl f Gynak , 1013, xxxvii, 225

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The secretions of the lowest vaginal portion of 902 women were examined. The patients entered the hospital in an afebrile condition. Amongst them were women who had already been examined or on whom attempts at delivery had been made before entering the hospital Those who were delivered spontaneously were exclusively examined per Labor was spontaneous in \$39 cases, manual assistance was rendered in 40 cases of podale presentation, instrumental interference was a necessary in 2 cases (forceps, version, craniotimy), 36 of the 902 nomen had streptococci, 514 none of the former to 5 per cent, of the latter 12-45 per centdevelopedbacterama. Therefore it is immaterial for the prognosis of the pureprenum of afbrile parturnent women whether streptococci are present antipartum or not. The difference between women with non-hemolytic and those with hemolytic streptococci is not an essential one. Hessos

Moran. Obstetrical and Surgical Treatment of Puerperal Eclampsia. Surg , Gynec & Obst. 1913, xvi, 219 By Surg , Gynec & Obst.

The author, in considering how delivery shall be effected in eclampsia by obsterrical and surged measures, says it must be governed by the condition of the cerva, is the frequency of the convulsions, and the depth of the comains, foreges or version should be employed. If the cerva is rigid and unfolded, metal or manual divulsion is extremely harardous, often causing shock, deep cervacil tens, hamorrhage and greater labality to infection. It is in these cases of untact cervices that vaginal hysteriomy and abdominal Castraena section are undicated, and when done primarily they give good results.

Lumbar natcosis, likewise lumbar puncture, Zangmeister's and Edebohl's operations, and amputation of the breasts should have no consideration in the treatment of eclampsia. Venesection is a serviceable measure and its value has been overlooked in recent years.

Chloroform causes acidosis and lesions similar to eclampsia, and for these reasons the author has

abandoned its use in obstetrics

The author advocates immediate delivery, but
cautions against haphazard treatment, as the morbidity and mortality are exceedingly high under
such conditions. Endeavor to choose the right
method of operation in the first instance.

Commandeur: Suppurative Fibroma of the Broad Ligament in a Case of Puerperal Infection (tibrome du ligament large suppure au cours d une infection perpuérale) Buil Soc d'Obst et de tymée de Par , 1912, 1, 984 By Journal de Chrutze

It appears that fibroids offer a lessened resistance to infection and therefore it would seem that the prognosis would be grave in puerperal infection complicated by uterine fibroid

At autonsy made by the author on a woman who was delivered at seven months of a macerated festus, an abscess was found in the posterior part of the capaule of the fibroma which filled the pouch of Douglas. The uterus itself was not much affected and appeared to be in an ordinary state of involutional appeared to be in an ordinary state of involutional to the state of the state of the state of the fibroma extended into the broad ligament.

The author concluded that if any slight infection should occur in fibroid uteri in other pregnancies, he would not hesitate to do an early hysterectomy

L Chevrier.

Sperling: A Case of Uncontrollable Vomiting with Retroversion of the Puerperal Uterus (Em Fall von unstillbarem Erbrechen bei Retroversion uten puerperals) Zentralis f Gynak, 1913, By Zentralis f d ges Gynak u Geburtsh s d Grenzeb

A 23 year-old patient had a spontaneous abortion in the fourth month of pregnancy During the last three months she had suffered from increasing uncontrollable vomiting, which did not stop after the abortion. Twenty one days later curettage was performed and hamorrhage and vomiting then stopped for six days when again the patient began vomiting The menses then stopped for almost four months when the uncontrollable vomiting again set in, and the patient grew worse and weaker, The parametrium and adnexa were free, the uterus was retroverted and 11/2 cm shorter than normal. its musculature slack, mobile and not sensitive upon pressure, there was no fever. In another month curettage was performed but no remains of pregnancy were found The vomiting then stopped completely, the patient being fed per rectum during the first days after the curettage. The uterus was found in anteflexion and the muscle tonus normal In this case the slight pathologic changes, retroversion and hyperinvolution of the uterus were the only causes of the uncontrollable vomiting that could be discovered. The author does not agree with the intoxication theory of hyperemesis and considers the condition a reflex process in the sympathic plexus WETZEL

Bosse: Hæmorrhages During Late Puerpersum
(Blutungen im Spätwochenbett) Berl klin, 1913,
xxv, 1

By Zentralbi f d ges Gynäk u Geburtsh s d Grenzgeb Hæmorrhages during the late puerperium have many different etiologic factors They may be the result of a disturbed regeneration of the mucous membrane and the defective involution of the uterus, they may be caused by retained placental remnants and fibrous polypi Myomata, carcinomata, sarcomata and chorioneptheliomata may result in late bæmorrhages After a normal course of the placental period profuse bloody discharges may be induced by thrombi which become detached by too early rising and too active exercise Hemophilia especially causes dangerous hæmorrhages in the late puerperium, which must be treated by atmocausis if due to diminished innervation of the vessel walls, or by animal and human serum and diphtheria antitoxin in lessened coagulability Angiosclerosis and syphilitic arteritis of the uterine vessels, at times, may cause late hæmorrhages, just so chronic metritis, functional disease of ovaries, or of the thyroid gland or hypophysis Finally a

very early recurrence of menstruction may simulate a hymorchize in late migration

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INDENDERG

Bacon: What Shall Be Done with Tuberculous Puerperæ and Their Children? Illin is M J 1011 XXIII 141 By Surg Gynec & Obst

Baron discusses the advasability of therspeutic abortion to better the condition of women sulfring from active pulmonary tuberculosis and disides the procedure into two heads, vital and prophylates, according to whether the pregnant woman has grown rapidly worse or whether it may be assumed that the pregnancy will cause a later up of the condition. He was the condition of the pregnancy will cause a later up of the condition of the pregnancy will cause a later up of the condition. He was the pregnancy in the first instance the women do not from a few weeks to a few months, and in the second the mortality according to Veit is about 45 per cent.

The author believes that abortion is called for in only about to per cent of cases. He rather advises proper by genic care for the gravid woman allowing to go to term and then canning for her in the most asceptic way, using all the known precautions to avoid wound infection. I ollowing labor, the pritent abould have great care for two or three months in feet to build her up and give her a

chance for life.
This, of course, is not within the range of the poor, and Baron advocates the building of a lying in hospital for consumptive, providing for grivide and that this be equipped with a well appointed confinement from a provision for purpers and a

well planned nursery

FIGENE CARY

Kunz: Herpes Zoster In the Puerperlum (Herpes zoster im Wochenbett) Zeneralbl f Gynth, 1913.

By Zentralbl I d ges. Gypsk u Geburish s d. Grenzeb An 18 year-old patient developed a typical herpes goster on the lourth day after delivery. The left

goster on the fourth day after deliver). The left impler region, costal arch and back were involved On the day previous, the temperature had been of §°C and toucherness was marked in the seventh and eighth interprets. The temperature went down to go §°C in the control of the

G, necological herpes soster is not rare and various mistance of the disease are known in obstetries. Nea describes a lumbo femoralis zoster concutred with eclampia. He though the torins should be blamed for it. Other types are ergoin herpes in a butter, aris herpes in a primity in noise and check herpes in the puerperium. Perhaps all are the result of the torins formed during abnormal metabolism. In the case at hand the causal factor is virgue since the history is negative and delivery

normal following pituitiin. The temperature of 39 6° on the third day of disease was caused by the herpes that had begun two days before. Militar

MISCELLANEOUS

Henkel. The Biologic Diagnosis of Pregnancy (Jur bail-grachen Diagnose der Schwangerschaft)

4rch / Gradt 1913, 2011, 55

By Zentralbl f d. ges Cynlk u Geburtsh a d Grenzgeb The biologic reaction of Alderhalden for the diagnosis of pregnancy was used in 40 cases at the Women's Clinic in Iena It gave reliable results in normal as well as in pathologic pregnancies. In one case of extra uterine pregnancy the reaction cleared up the disgross A minute description of the technique of Abderhal len s reaction is given. The optic reaction is very delicate and requires great skill. It is regarded as positive when a rotation of more than o or occurs. Cloudy and hamorrhagic f'ut is should never be used. The method of dialysis is simpler, gives also accurate results but does not allow an opinion of the quantitative difference and the rapidity with which placental albumin is split off. In contradistinction to the reaction of normal puerpera the placents of an eclamptic was not sold off by its own serum formal pregnancy serum only split off that of eclamptic The spinal flaid of the eclamptic cave a weaker reaction with normal placenta with its own placenta, however, a very The bile of the eclamptic gave decided reaction opposite results from that of the spinal fluid (intense splitting off of normal placenta no splitting off of the eclamptu placenta) The author points to the possibility of gaining valuable progress with the aid of this reaction in eclampsia and tumor investication

Piorkowski Biological Reactions (Uber biologische Reaktionen) Beil kin liches br. 1013, L 121

The author has used the optical and dialysing method of Whderhalden to diagnose early pregnancy, the rathest being in the third week. He succeeded in mixing a correct diagnosis in no less than 66 per cent of his cases.

Wolff Oxidase Reaction in the Placenta (Oxida senteaktion in der Hasenta) Monalische f. Geburlih

By Zentralbl f d ges (anak u Geburtsh a d Grenzgeb

The ordise reaction of Schultze and Gierle was applied to human placental tissue in various stages of development. Blue granules became visible in forces sections that had been hardened in formation, just as soon as the alphanaphthol and directlylphen) jendamin were considered to indephenolible forest numbers of blue granules were detected in the years of the properties of the properties of the granules were detected in the properties of the properties of the granules were rare in butter granules. The blue granules were rare in butter placent and in plecental infarters. The amount of

oxidizable substance is in an indirect proportion to the amount of fit in the cell GRAFENBERG

Abderhalden: Serum Fermants in Pregnancy and in Tumors, Remarks on Lindig's Work (Über Serumfermentwalung bet Schwangeren und Tumorkranken, Bemehungen zu der Virbeit von Paul Lindig) Munchen med Micharder, 1913, 18, 411 B. Zeptrallb if dige Gynik u Geburtsh s di Geroargeb

Abderhalden sharply attacks the modincation of his method as surgected by Lindig in the use of dry placental tissue. The powdered placenta contains substances that dialyze and that react with ninhydrin, whereas Abderhalden deems it a prerequisite that the solution of placental substance be insoluble and neutral to ninhydrin. The faulty results of Lindig can be explained in this way. Henkel, Irank, and those working in the Graz clinic have had such invariable success with the author's exact method that Lindig has been convinced that himself of the substance of t

IIndig: Serum Ferment Reactions in Pregnancy and in Neoplasms (Über Serumiermentunkungen bei Schwaneeren und Tumorkranken) Mancken med II (knicht, 1915, Ir. 1838
B) Zentralbi f d ges Gynik u Geburtish s d Grenrgeb

The author employs a modification of Mederhal den's technique by using pulserized placents about an he kept for a lone time and enables more existed quantitative work. The dired albumm of tumors such as cancer, myoma, or dermoids, and of mussle was also used in the fermention experiments His results show that a proteolytic ferment is present in women who are pregnant, or who has a a tumor in the genital tract, and perhaps also in inflamm thous which split off the albumm of the placenta, uterus, ovary, or of tumors of the genital and in a lesser degree also of muscle

Murray: The Immunology of Pregnancy J Obst & Gynec Bril Emp, 1913, xxiii 87 By Surg Gynec & Obst

This article is a report of some complementfixation, lecithin precipitation and cobra hamolysin reactions in normal and toxic pregnancy, with a review of recent literature The author first calls attention to the two diametrically opposed views (1) that pregnancy is a "harmonious symbiosis" and (2) that it is an instance of reaction to an antigen. He then calls attention to the marked changes occurring in (1) normal pregnancy which progress steadily until termination and then subside. except for the breasts, whereas, (2) in abnormal pregnancy there are obviously two stages of intoxication, an early one expressed by union or major degrees of emesis and a later stage expressed best by the term "eclampsism" It is regarded as unfortunate that the broad issue of an immunity reaction in pregnancy is obscured by that of anaphylaxis, this latter condition in itself being a phase in the development of an immunity The idea of eclampsia as an anaphylaxis in pregnancy is undoubtedly taking more and more hold on scientific opinion as is a witnessed in Brt and Commandeur's recur review. Murray, however, does not accept this idea in full, chiming that eclampsia in the buman is a convulsive disease, while true anaphylaxis with convulsions has not been described and densing that the lesion produced is common to both. The evidence for and aguinst an immunity reaction in pregnancy to the contents of the uterus is discussed under these headings.

I SENSITIZATION REACTIONS

Attention is called to the fact that a sensitization to species is all that can occur and hence all work in this direction must be strictly limited to the injection of homologous ma-From the investigations of Thies and Lockemann, whose results were later confirmed by Mosbacher there is some evidence that pregnant animals are already sensitized to some element in homologous fortal serum and that non pregnant animals can be sensitized to it The suggestion. then is here made that fortal serum sensitizes the mother by virtue of a small fraction of placental antigen which has reached it from the umbilical vessels but a fraction so small as to be insufficient in the quantity of serum available to produce anaphylaxis when given a second dose

II EPIPHAN REACTIONS

1 Complement fixation reactions: Fieux and Maurica used an antigen prepared from the villi of a two months pregnancy in which abortion had been induced for intractable comiting and claimed to hive demonstrated between the second and fourth months of pregnancy a specific antibody, for young chorionic villi. Murray has worked with antigen prepared in three different ways and his results show considerable variation due most probably to the method of preparation.

2 Diffusion reactions of pit-patch here reverses the work of Wechandt and Mosbacher. The diffusion for the pit of the

3 Precipitor reactions Lemaire and Laffont could detect no quantitative difference between pregnancy and the non-pregnant condition, and Murray's results were likewise negative in sixteen tests, using both normal and eclamptic liquor amnii.

4 Polarimetric reactions
5 Dialytic reactions Abderhalden's now wellknown results are reviewed here, to which Murray has none to add

III THERAPEUTIC INOCULATIONS Meyer's and Fround's results in the treatment of

hyperemesis and eclampsia by injection of normal pregnancy serum and horse serum are noted REACTIONS NOT DEFINITELY INMUNOLOGICAL

Under this heading the author discusses

1. The antitryptic power of pregnant serum.

increased during the first half of gestation. 2 Lipoid reactions in pregnancy, an increase except in the early weeks, and a characteristic cholesterin reaction by the end of the third month

3 Wassermann reactions in eclampsia, positive in all at some stage according to Gross and Bunzel but negative with Alsberg, Thomsen and Heyne Murray notes that the Wassermann reac tion is caused by lipotropic substances rather than by antibodies and is in no sense comparable to a

bacterial complement fixation test

4 Cobra venom reaction in pregnancy author here recapitulates the position taken in previous papers wherein eclampsia and venom He again minutely poisoning are compared describes the massive focal necrosis at the periphery of the liver lobules as the characteristic lesion in eclampsia and regards cerebral hamorrhage as an almost constant factor in fatality Such lesions, he argues, can be produced only by (a) hemolysis (cytolysis), generally admitted, (b) hamagglutination, found by Murray as distinct from fibrinous thrombosis in every case, (c) fibrinous thrombosis, invariably present, secondary to any hamolytic poisoning, (d) endotheliolysis, best studied in the brain of eclampsia Murray now claims that a fifth factor must be added a neurotoxin, of which there is constant clinical evidence

The argument is next taken up that these five components, aside from in eclampsia, are to be found only in venom poisoning, and the author believes that eventually bio chemical research should succeed in extracting a single definite body of this nature from the columptic placents. In addition to being an antigen cobra venom shows a peculiarly strong action as an amboceptor and hence Murray's experiments are not classified as complement fixation tests. In his work, the scrum was not inactivated as was the case in the investigations of yon Graff and Roemer In normal pregnancy positive results were obtained in primiparæ in eighty per cent, in multiparæ in sixty six per cent seven cases of eclampsia the reaction was positive but twice, one case of impending eclampsia was negative and two of severe albuminuria of pregnancy without pre-eclamptic symptoms were positive The author does not regard this reaction as either a CARRY CULBERTSON specific or an essential one

Werelius: Do the Parathyroids Functionate in Intra-uterine I ife? Surg, Gynec & Obst., 2013, By Surg, Gynec & Obst.

Reasoning that in thyroparathyroidectomized pregnant dogs the resulting tetany would be delayed till post partum by a compensatory action of the fortal parathyroids, the author selected ten does in later stages of pregnancy

In these, complete thyroparathyroidectomy was performed Contrary to his expectations, these dogs died in tetany much earlier than non pregnant

does The post-operative life averaged a little over two days Non pregnant dogs hved from five to ten days following the operation These animals did not die from shock, as for some

time subsequent to the operation they did not show

the least disturbance They were, however, soon overpowered by substances ordinarily neutralized by the parathyroids, and much earlier than nonpregnant dogs, on account of the added products from the factal pups, whose parathyroids probably then did not functionate as they do later in life

If these glands were active at this early period no extra material would be thrown on the mother, as each set of glands would at least take care of its own pup, and consequently life should not be very much if at all shorter in pregnant than in non pregnant

There is no doubt but that the removal in pregnant animals of any organ or sets of organs of an internal secreting function would hasten, and possibly intensify, the symptoms ordinarily associated with such removal unless compensated for by vicatious organic function in the fortal pups

Heredity as a factor in the etiology of goiter was shown in this series, as in two mothers with gosters all the pups were found with greatly en larged thyroids In the feetal pups, the left gland was almost invariably the larger and heavier just the opposite from the condition in the adult.

Petermöller. High Pulse as an Indication of Imminent Danger of Embolism; a Case of Fmbolia Arteriæ Centralis Retinæ (Hober Pulz ein Ilinweis auf die bestehende Gefahr der Embolie Em Fall von Embolia artenæ centralis retinæ) Frau

enariz, 1913 xviit, 50 By Zentralbl I d ges Gynäk u Geburtsh s d Grenzgeb

Four cases of lethal embolism in the puerperium. all of which were delivered surgically, are reported Lxtraction, version plus extraction, forceps and Casarean section were the methods employed Only one patient had a temperature as high as 39 4° C on the second and third day, each of the others pursued an afebrile course All had a constant pulse rate of 90 to 130 The author considers this latter symptom an important sign of imminent embolism and advocates the use of digitalis to reduce the high pulse. If this latter measure is ineffective the nationt should be nut to bed, even where no other objective symptoms are present It is very important that midwives should make a record of the pulse. Petermoller then briefly reports a case of embolism of the arterize centralis retinæ This occurred 515 months after spontaneous parturation, to which the embolism probably was related in some way

Damaye: Progressive Paralysis Running a Sub-Acute Course with Relapse During Pregnancy (Syndrome paralysis générale subaigu, récidive à loc casion d'une grossesse) Arch internat d' neurol .

1913, XI, I By Zentralblf d ges Gynäk u Geburtsh s d Grenzgeb

A woman 37 years of age, afflicted with progresstve paralysis, enjoyed a two years' remission of all symptoms excepting that her pupillary reflexes did not respond to light This result was obtained by iodine medication and institutional care. An uncomplicated subsequent pregnancy with normal labor caused a recurrence of the paralysis and death two years later The author assumes that the brain was able to cope with the syphilitic virus normally, but could not withstand its increased activity during pregnancy.

Jung: Puerpera with Roberts' Narrow Pelvis (Wöchnerm mit querverengtem Robertschen en) Deutsche med Wehnschr , 1913, xxx1x, 436 By Zentralbl I d ges Gynak u Geburtsh s d Grenzgeb

A multipara of twenty years showed physically an extreme narrowness of the hips The measurements, taken during an operation, proved that the transverse diameter at the superior strait was 6 cm This is even smaller than that of the original Roberts' pelvis The patient was pregnant and pains set in during the eighth month, some time after life had ceased in the uterus Klein's Casarean operation revealed a syphilitic, macerated feetus of 2000 g The Wassermann was positive and she probably had ostitis in early youth RUBEMANN

Waldstein - Breus' Mole and Retained Gestation Sacs in General (Über Breussche Molen und reti merte Eier im allgemeinen) Monatschr f Geburtsh u Gyndk, 1913, xxxvii, 23 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author describes a case of Breus' mole in an otherwise healthy woman A vaginal hæmorrhage occurred 21/2 months after the last menses, but vaginal examination showed that the uterus was not enlarged Two months later, the mole was re The embryo had died long before and moved showed signs of atrophy. It was sectioned serially and studied Some of the tissues showed post mortem change and other portions were living up to the time of operation

In another case where hamorrhage continued during the fourth to the sixth months, the author removed a mole containing a 6 cm mummified embryo A hamorrhage which had its origin in the placenta had pressed forward to the chorion-amnion layers Some of the intervillous spaces were filled with blood and the stroma of the villi was partly intact There were signs of inflammation in both decidua and placenta The fleshy mole is a gesta-tion sac infiltrated with blood, while the Breus' mole is an aneurismal sac. In the latter, death occurs earlier and preservation is more complete

The author puts rabbit embryos into Ringer's solution with and without oxygen and rabbit serum

Examination five to eight days later revealed postmortem tissue growth of varying degrees, and showed that oxygenated serum was the best preserv-Such conditions are analagous to those found in Breus' moles, the feetus making use of substances from the maternal blood PENKERT.

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Hereditary Chondrodystrophia Fætalis (Uber familiaere Chondrodystrophia foetalis) Mun chen med Wchnschr, 1913, lx 248 By Zentralbl (d ges Gynäk u Geburtsh s d Grenzgeb

As a contribution to cases of hereditary occurrence of chondrodystrophia fœtalis, of which a number have been reported, Chiari reports two cases from the pathologic institution in Strassburg The children were stillborn at the end of and at the beginning of the ninth month of pregnancy respectively, they had the same father and the two mothers were sisters. The two mothers were of normal frame and so was the father The paternal grandfather, however, was a dwarf. The two children showed microscopically and macroscopically the picture of chondrodystrophia foetalis hypoplastica.

Mercier Uterine Nephrophagocytes of the Pregnant Rabbit (A propos des néphrophagocytes de l'utérus de la lapine gestante) Compt rend hebdom d séance de la soc de biol, 1913 lxnv, 165 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Ancel and Bouin, in 1011, found in the uters of pregnant rabbits, large cells to which they ascribed characteristics of glandular elements The internal secretion of these cells were supposed to cause and to qualify the condition of the mammary glands during pregnancy

Mercier, by injecting carmine into the test rabbits, was able to demonstrate that these cells possess phagocytic and excretory qualities In accordance with the custom of physiologists, the author named these cells "nephrophagocytes" The author can not credit these cells with having an influence upon the functions of the mammary gland any more than he can hold them responsible for the peritoneal covering of the uterus or the condition of the liver capillaries His theories are negatived also by the fact that secretion appeared in the mammary gland (after an unfruitful coitus?) twenty-two days after cortus in spite of the absence of a fortus, placenta and nephrophagocytes

Loewy: Action of Bürger's Ergotin (Versuche über die Wirkungen des Burgerschen Secalysats) Therap d Gegenwart, 1913, hv, 66

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb The preparation of ergot used by Burger contains besides the active constituents of ergot also from 2 5 to 5 per cent cotarnin hydrochloride Loewy could not notice any change in the musculature of the blood vessels in the web of a frog's foot, neither after dropping the ergot directly upon the web nor after its injection into the dorsal lymph sac. He observed a great fluctuation in the blood pressure in rabbits and dogs whenever he injected the ergot subcutaneously This according to him is due to the fact that the respiration becomes deeper and slower In cats he always observed a lowering of blood pressure when the preparation was injected intravenously. Furthermore, by means of the oncometer it was found the decrease in the volume of an organ was in proportion to the increased pulsation of the blood vessels It causes anæsthesia of the musculature of the vessels Furthermore, experiment with uters kept alive according to the method of Magnus showed that this ergot preparation has much more effect upon smooth musculature than a dialyzed preparation of ergot of the same concentration without the cotarnin hydrochloride few instances no effect was noticed with pure ergot. while the prepared ergot caused a decided and at times a very strong contraction Loewy concluded that Burger's ergotin should be used in preference Moritz to the simple preparations of ergot

Lumpe: Disinfection of Hands of Midwives (Zur Handedesinfektion für Hebammen) Ann f d ges Hebammenwes, 1913, iv. 17

By Zentralbl. f d ges Gynak u Geburtsh s d Grenzgeb The author warns against inserting in the new rules the method of disinfection of hands as given in the fifth edition of the text-book for Austrian midwives by Piskacel, as they are out of date Coinciding with Doederlein Kronig (op Gyn 3 ed) he deems the noninfection and protection of hands against injuries and abrasions more important than disinfection. In place of the worthless maltreating of hands and forearms for 15 minutes with stiff brushes and irritating disinfectants, of which mercanic bichloride is one, the midwife should be compelled to wash her hands with hot water and neutral soap, then with a solution of sublamin 2 1000 and alcohol by using gauze or cotton sponges for the application of same The mode of rotation of application is important GRAEUPNER

Spaeth The Effect of Pituitrin on the Child (Hat das Pituitrin einen nachteiligen Einfluss auf das Kind?) Zentralbl f Gynäk, 1913, xxxvii, 165 By Zentralbl f d ges Gynäk u Geburtsh s d Grenzgeb

The rate of the heart heat of the child is often retarded after pituitin injections. This drug acts harmfully in two ways. I By too rapid succession of uterine contractions the placents is continuously compressed and the feetal blood is poorly grated 2. Pituitin passes into the feetal circulation, where it exerts a cardio vascular action.

The author reports a case of breech presentation in which he gave two injections of o 5 cc pituitrin within 1/2 hours. After the second injection rhythmost retrients developed with normal intervals and a normal delivery soon followed. The child, however, was suphyrated, pulsation being very slow and respiration greatly retarded, death ensuing in one-half hour. Autopsy revealed nothing and

the author comes to the conclusion that pituitin was the toxic agency.

WAGNER.

Gousew: Pituitary Extract in Obstetrics Med Press & Circ., 1913, cxlvi, 149 By Surg., Gynec & Obst.

From an experience in 48 labor cases, of which 25 are reported somewhat in detail, the author makes the following observations

the following observations Pains begin in from two to ten minutes, accompanied by abundant micturition. Pituitary extract stimulates pains better during the second half of pregnancy, especially at its end, it gives good and reliable results in the first stage and acts still better in the stage of expulsion Anæsthesia, and especially morphine, inhibit the action of the extract. It is more reliable than hot douches and metreuresis for effecting artificial premature labor. It frequently is able to supplant forceps and Kristellar's expression Pulmonary tuberculosis, diseases of the heart and kidneys, eclampsia, marginal placenta prævia, and premature detachment of the placenta he does not consider contraindications He relates that cedema ta completely vanish in from 8 to 18 hours, while the albumin markedly decreases or disappears from the urine after its use. It hastens the expulsion of the He observed no miurious effects on placenta mothers or children In cases of atonic post partum hæmorrhage the extract gave rehable and permanent results, stimulating strong contractions of the uterus He asserts that irregular pelves not below the medium degree of contraction are not contraindications to the administration of pituitary ex-N SPROAT HEANEY

Jaeger The Use of B-Imidazolylathylamin in Obstetric Practice (Versuche zur Verwendung des B Imidazolylathylamins in der Geburtshilfe) Zen

tralbl f Gynak, 1913, xxxvu, 265 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb The author reports his experience with an ergot derivative as a substitute for ergot stance B Imidazolylathylamin is produced from histidin by splitting off carbonic acid. It is a stimulant to smooth muscle and especially to the smooth uterine muscle. The heart is but mildly influenced The drug was given only to puerperal women in solution of 1-1000 by mouth patients stood it well without any untoward side actions The action is analogous to the extract Involution was as rapid as with ergot. After pains were plainly felt. Its use in cases of labor showed its madaptability in these conditions. The injection is not painful, but each time a mild reactive reddening of the skin occurred at the site of the injection There was no difference in action between an intramuscular and subcutaneous injection With a dosage of 1-500=4 mg there was no influ ence on contraction A number of side actions occurred, however, such as congestion of the head, headache, erythema Even with injections of 6

mg no influence on contractions took place. It was

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possible to produce some uterine contractions with 4 cc =8 mg of the substance The first contraction set in within 3 to 5 minutes as with pituitrin In two cases a tetanic contraction of the uterus occurred. lasting 5 minutes. In the remaining cases, powerful contractions were obtained, these lasted on an average I to 13/2 minutes Intervals amounted to 1/4 to 1/4 minute Contractions were rhythmic in character. Interval and contraction were almost of the same duration. Its action lasted 1 to 11/2 hours, contractions weakened but usually sufficed to end labor. A rise in blood pressure of 20-30 mg = g occurred in each instance The child was not influenced in any way, but the woman did not stand the injection as well. No threatening phenomens were observed, though in addition to the above mentioned symptoms palpitation, vomiting and irritation of the conjunctiva frequently occurred Only in two out of twenty five cases were no side actions observed. In the remaining cases they consisted of greater or less intensity With injections of 4 cc = 8 mg of the substance a contraction of the cervix was observed in two cases, so that the opening of the os was smaller than at the beginning of the injections The B-Imidazoly lathylamin will take its place midway between pituitrin and ergot The observed side actions demand care, in addition, high doses are necessary to secure an expulsive action. There is no objection to its use during the puerperium BENTHIN

Edgar: The Infant Pulmotor: An Apparatus for Artificial Respiration on Asphynated Newly Born Infants. Am J Obit, N Y, 1913, 1914, 255
Edgar has so modified the Dragen oulmotor that

he has evolved an apparatus fitted to the use of combating asphyxia in the new born. He describes the principles of its action and gives the rules for its operation. N. Sproat Heaney

Schlossmann: The Economy in Metabolism of the New-born (Die Ekonomie im Stoff und Kraft wechsel des Sauglings) Munchen med Wichnschr, 1913, ls, 285

1913, kt, 285 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

In natural feeding of infants the conomy is excellent but in artificial feeding with provision for the same caloric value, a part of the nutriment is son because the metabolism of not quite adequate fined requires more work on the part of the body that the part of the control of the part of the control of the part of the control of the part

work, 1 e, crying From a similar viewpoint the quiet behavior of premature children and the cessation of increase in weight of children with itching eczema must be judged FRANKENSTEIN

Abels: Genesis and Symptomatology of Intracranial Hæmorrhage in the New-born (Zur Genese und Symptomatologie utrakmieller Blutungen beim Neugeborenen) Arch f Gynak, 1913, XCM, I

By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

Abels and Seitz think that stenosis and mechanical influences are the cause of intracranial (supraand infra tentorial) hamorrhages, that, however, pure hæmorrhages of the ventricle (of which two cases came under their observation) are caused by stenosis alone, favored by compression of the skull This is easily explained in protracted and difficult As a result of the considerable differparturition ence in blood pressure during labor, and the difference between the pressure of the uterine contents and the lesser atmospheric pressure, to those structures outside of the os uteri are exposed, the blood supply is increased and the discharge diminished Less easily explained are the causes of hamorrhage in rapid precipitate delivery, where the sutures are These skulls descend a wide and easily shifted considerable degree with every pain and expose a relatively large surface to the diminished atmospheric counterpressure. The process is similar to that caisson disease in which hamorrhage occurs through mucous surfaces while here it takes place into the ventricles The differential diagnosis between tetanus and intracranial hæmorrhage is not quite The tonic spasms, however, which are easily incited by reflex, the beginning and the degree of the trismus, which symptoms in themselves would point to tetanus, justify the diagnosis "hæmorrhage of the ventricle" when tetanus bacilli are absent, where rigidity of the neck and apisthotonus. is absent This diagnosis is confirmed if there is simultaneously spasms of the fascialis and oculomotoftus nerves ELTEN

Kosmak: Immediate Treatment of Depressed Fractures of the Skull in the New-Born. Am J Obst., N Y., 1913, lxvu, 264

By Surg , Gynec & Obst

Kosmak reports in detail the case histories of the skull, which he treated successfully by elevation of the skull, which he treated successfully by elevation of the depressed fragments early after their discovery the stream of

ach and intestine

Kruger: Acute Tetany of the New-born (Uber ene seltene Erkrankung eines Neugeborenen) Zentralbl f Gyndk, 1013, xxxvii, 58 By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The author delivered a primipara, aged 33 years, of twins The first one was born after fifty-seven hours of labor and was macerated It presented by the breech The second was somewhat asphyxiated. due to the aspiration of amnionic fluid, but was resuscitated by tracheal catheterization. On the second day, the child developed tonic contractions of the muscles of the trunk and opisthotonus The elbow and knee were slightly flexed and passive extension was impossible. The skin of the entire body felt like moist pasteboard The child vomited foul smelling pus and died on the evening of the second day Strentococci were found in the intes tine The author believes this to be a case of sensis with meningeal symptoms, the tetany being caused by the absorption of streptococcic toxins from stom

Zubrzycki and Wolfsgruber: Normal Hæmagglutnins in Maternal Milk and Transference to the Child (Normile Hamagglutinne in der Frauennich und ihr Übergang auf das kind)

Deutsche med Wehnschr, 1913, xxxx, 210

By Zentralbi i d ges Gynäk u Geburtsh s d Grenzgeb

In these experiments blood was used from women. rabbits placenta, horses, rats, goats, dogs, pigeons, and guinea pigs To 1 cc of increasing dilutions of milk 1 cc of a 5 per cent blood dilution was added, the mixture shaken and placed in the thermostat at 37° for two bours, then in the ice chest for twelve hours, after which a reading was made The experiment showed that hæmagglutinins are present in human milk and the agglutination reaction varies according to the kind of blood the milk is mixed with The rest of the experiments were performed with rabbit blood. The hæmagglutinins were most abundant during the first few days of puerperium There is also a difference in the milks of primiparæ and multiparæ During the first fourteen hours post partum the amounts of hæmaggutinin were about equal, but from then on they remain longer and in greater amounts in primiparæ than in multiparæ The normal hæmagglutinins are not influenced by nursing or digestion on the part of the mother They are not found in the blood of the nursing child up to the fourteenth day after birth They are either destroyed by the digestive organs of the child or else they are not IBRAHIM absorbed

Bonnet-Laborderie Pathogenesis of Sudden Death in Syphilitic New-borns (Pathogenie de la mort subite immediate des fectus syphilitiques)

Rev prot d obst et de gynee , 1913, xxi, 1
By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

It is not very uncommon to find syphilis in the new born They die shortly after birth and no real anatomic leason is discoverable. Formerly we were content with sacribing the cause to be general cachesta, and, at present, we are wont to assume that a "specific septicemia" produces such deaths. The heart, brain and spinal cord are seldom affected, but nearly always there is an involvement of the abdominal organs, especially the liver and the spleen inexplicable lasts remain, viz., why the deaths are so sudden and why they occur at the moment of birth Several times obliteration of the vena portie was found. That such obliterations can cruse sudden death was demonstrated experimentally by Ber death was demonstrated experimentally by Ber

Obliteration, however, cannot be assumed to occur at the moment of birth, because we know that they are of gradual formation. The author believes he has discovered the cause of the sudden death intra partum Every foctus dying as described above. had a specially marked abdominal development This condition was found in every one of the 8 cases studied by the author The abnormally developed abdomen is caused by the diseased internal organs. especially by the liver There is hypertrophy of all glandular organs, which Blanchet describes very characteristically as the "glandular splanchnomegaly of hereditary syphilis Sometimes ascites causes great abdominal distention. The abdominal walls lose their normal elasticity through all these pathologic conditions Consequently, the lungs are not capable of inhaling sufficient air and the child dies from lack of oxygen at the crucial moment when oxygen is of greatest importance. Autopsy shows the lung expansion to have been nil or very limited Owing to the inability to breathe, cyanosis is produced which gradually changes to pallor Since abdominal distention is the prime factor, paracentesis is indicated as a probable aid in restor ing normal abdominal elasticity. This suggestion was made first by Stament The suggestion is timely and well worth carrying into action, though the prognosis be very dubious

Armann Pulsations Observed in the Primitive Cardiac Tube of a Human Embryo in the Second Week Am J Obst, N Y , 2913, Ixvii 253 By Surg , Gyncc, & Obst

Armans secured an intact owum the sue of a hazel mut with well developed chorome will from a woman who aborted six weeks after her last mensitur all period. Upon operang the ammotic cavity he compared to the second of the seco

N SPROAT HEANEY

GENITO-URINARY SURGERY

KIDNEY AND URETER

Swan: Tumors of the kidney Lancet Lond, 1013, claxxiv, 374 By Surg, Gynec & Obst

The author takes up the subject under the clas sufication of Garceau (a) Solid tumors of the renal parenchyma malignant, benign, embryonic, and

(b) Tumors of the renal pelvis

The hypernephromata are by fur the most com mon form of malignant tumor of the kidney, occurring in from 75 to 80 per cent of all renal tumors Primary carcinoma is a much rarer form of malig nant tumor of the kidney than hypernephroma, but probably they do not amount to more than 2 per cent of renal tumors Sarcoma of the kidney occurs as a primary tumor both in the round and spindle celled variety. The innocent tumors of the kidney very rarely give rise to symptoms during life unless they attain a large size. Adenoma of a papillary or tubular form are frequently found Angioma of the kidney is a distinctly rare condition Lipomata and fibromata of the kidney are rare The embryonic tumors of the kidney are compar atively rare. Of the tumors of the renal pelvis the papilloma is the most common The villus covered carcinoma may occur as a primary tumor or may be a malignant form of a simple papilloma The three prominent symptoms of hypernephroma are hæmaturia, pain, and the presence of a renal tumor Hæmaturia is perhaps the most important symptom, and in the author's experience is more frequently of the nature of a recurring profuse hæmorrhage Pain in hypernephroma is generally of a dull, aching character, referred to the loin in the renal angle Hypernephroma is most common between the ages of 50 and 70, and is of comparatively slow growth The author discusses the value of the cystoscope and the diagnosis. He takes up the differential diagnosis of the various tumor formations in the kidney, and urges strongly the necessity of a thorough cystoscopic examination in these cases In the treatment of renal growths it must be ascertained (1) that no metastases are present and (2) that the other kidney is present and functionally active If the functional tests are satisfactory and there are no metastases, the only treatment that can hold out any prospect of cure is the removal of the affected kidney

Of 7 cases of hypernephroma, 2 are still quite well, 1 two years and the other 1 year and 8 months after operation, one died from recurrence 2 years and one 6 months after operation, one case is still alive, but a second operation was necessary for recurrence in the lower end of the lumbar incision 3 months after the nephrection. Two patients died

before leaving the hospital, one within 24 hours as the direct result of the operation and the other from pneumonia after 15 days. A case of carcinoma of the kidney remains well two years after the operation. D. C. Batroux

Barney. The Symptomatology of Renai Tumors: a Study of 74 Cases from the Massachusetts General Hospital Boston M & S J, 1913, dxvn, 300 By Surg, Gynec & Obst

The author has studied 74 cases of renal tumors occurring at the Massachusetts General Hospital The list includes 27 hypernephromata, 7 sarcomata, 7 carcinomata, 3 adenomata and r endothelioma The remaining 24 are unclassified in the absence of nathological examination.

All but one were in the white race, 43 were males and 31 females, and most of the tumors occurred in

the fourth decade

The duration of symptoms shows a wide range, but in a Scass they were only of 6 months' duration, and in the large majority they had lasted but a year. In a majority the symptoms were of a general nature, at least at the outset. Loss of weight had occurred in 51 in 46 there were no unrany symptoms aside from harmaturia. The unne contained pass, blood albumin or casts in 61, but it may be normal, of at summor of the control

The cardinal symptoms are pain (6) times), timor (6) times), hematural (5) times). The timor (6) times are timor (6) times, hematural (5) times are times are times, hematural (5) times are times, and times, and pain and hematural, sounded the alimin in 6 cases each, while hematural and timor together were seen but once. The only symptom during the course of the disease was pain in 6 cases, timor in 3, and hematural in 3. Pain and timor occurred in 22 timor and hematural in 6 pain and hematural in 15, and timor and hematural in 3. The pain and hematural on to differ from that seen in other lessons, except that each may, and often does, occur during rest, a point of considerable diagnostic value.

There is no evidence in this series that renal tumors produce a rise of temperature or of blood

pressure

Cystoscopy and ureteral catheterization are of the timost value, not only as a means of climinating other conditions, but also for determining the functional ability of the two kidneys. In connection with this the X-ray is of importance for the exclusion of calculus and for the determination, by the aid of injected collargol, of the sire, shape, and position of the renal pelvis.

Physical examination showed a tumor in 65 cases. Tenderness is inconstant. In the examination of the abdomen, great stress is laid on the value of having the patient in the position described by Israel, i.e., Jung on the sound side, with the thighs flexed, the operator palpating the kidney by biminual pressure.

Metastatic growths are to be expected in a large number, and sometimes may antedate the appearance of renal symptoms. In 3 cases a left varicoccle was noted in connection with a left sided renal

tumor.
As in all other malignant growths, our only hope

of good results lies in making an early diagnosis, and, where all else but tumor has been eliminated, in operative exploration of the kidney without delay Diamontic. Hydatid Cysts of the Left Kidney.

Diamanti: Hydatld Cysts of the Left Kidney; Nephrectomy, Cure (Kyste hydatique du rein gauche, Nephrectomie, Guerison) J d Urol., 1913, 10. 100 By Journal de Chrurgie

.The localization of the echinococcus in the Lidney is a rare condition. Localization in the privis of the kidney is still more rare. The history of the patient. a man 52 years of age, showed many violent crises of acute pain occurring during the last two years. located in the left flank, and ending by the climina tion of an ever increasing number of hydatid vesicules Hæmaturia occurred but once in the last four years Bimanual palpation could not outline the kidney, either on the right or left side, but on the left, pain was provoked by deep palpation in the costo lumbar angle At operation the kidney was shown to be in immediate relation with an enormous pocket, the size of a fortal head, adherent throughout, and fluctuating upon movement This pocket together with the kidney was removed and the patient recovered

Examination of the specimen proved it to be a hydatid cyst of the left kidney, which, beginning in the lower pole of the kidney, had involved the entire under surface of the pelvis had become calcified

J TAYTON

J TAYTON

Rischbieth Polycystic Discuse of Kidneys, Remarkable Persistence of Functions in Two Cases in Adults Lancet, Lond, 1913, clxxiv, 450 By Surg, Gynec & Obst.

The authors report two cases of polycystic disease of the kidneys. The first patient attained the age of 20 years without a symptom. He then had an attack of intestinal obstruction of a subscure and partial variety, and one at thought by his medical attendant to use a tumor of the descending colon attendant to use a tumor of the descending colon and on operation proved to be a polycystic kidney, which was removed, although the right kidney was also ascertained at operation to be polycystic. The patient remained in perfect health for 6 years with one polycystic kidney, had no symptoms suggestive or renal disease, was passed for life insurance, and or renal disease, was passed for life insurance, and

dued from an independent disorder. The second case was a man of 6 y years of age suffering from acute colusis, from which he died, and both ludray were found to be polycystic on post mortien examination. The author considers the whole subject of polycystic kidney, especially the pathogenesis, and says that the following view is held. The obstruction is due to arrested or maldecomment of the kidney. The frequent association with other multormations is held to support this view, as well as the fact that hereditary and family case have been recorded. Devant C Burgons

Lecène A Case of Pyelitis (Un cas de Irucoplasie du bassinet) J d'Urol, 1913, 10, 130 By Journal de Chrurese.

The authentic cases of pyelitis are very rare This case which Lectine has observed and operated was a young woman of 28 years, who, for nine months following a confinement at term suffered continually from pain in the region of the right kidney, pus being found in the urine Bimanual palpation revealed a tumor the size of both fists in the right lumbar region, regular, ovoid in shape, of firm consistency, a little tender upon pressure and giving ballotment Ureteral catheterization proved that the pus was coming from the right Lidney and that the excretion of urates and chlorates from this kidney was less than from the left Surgical intervention showed a much enlarged kidney, enveloped in a mass of perinephritic adhesions and compressed above and behind by the enlarged pelvis. This was the size of an ostrich egg The ureter was entangled

in a mass of adhesions Nephrectomy Macroscopic examination showed a large, boggy kidney, with the parenchyma diminished in amount. The ureter, buried in adhesions, opened into the lower part of the distended pelvis The musculature of the pelvis was greatly thinned out from pressure Microscopic examination showed a leucocytic infiltration in the musculature of the The stratified cuboidal epithelium of the pelvis was transformed into a stratified pavement type with a basement membrane, pavement cell layers connected by fine filaments and a horny layer The subjacent tissue was inflamed. The tubes were dilated, filled with leucocytes and infiltrated with numerous lymphocytes The infection was from the colon bacillus

In 1896, Halle reported five cases of pychtis Leber's case concerned a four months-old infant who died from panophthalmitis, a chronic inflammatory condition of the kidney pelvis being found

The general belief that it is the chronic inflammation of the musculature that stimulates the change in epithelium, transforming the normal stratified cubidal epithelium of the pelvis to the pavement celled type with a horry layer, is insufficient for the companion of the companion of the pelvis rating of these transitions of the pelvis. He would arber think that we are dealine with a consensit mallormation. The case reported by Leber, of a double pyeluts in a child of four months upholds his supposition that it is a congenital defect. Once aroused by the subacute inflammation from the musculature, these embryonic epithelial cells give nee to the cholesteatomatous or to the atypical pavement celled epithelium with a stratum cornium.

Buerger: A New Method of Diagnosticating Renal Tuberculosis Am J Surg 1913, xxvu 55 By Surg , Gynec & Obst

In cases of suspected renal tuberculouss where tubercle baculi are absent and netther the microscopic findings nor the cystoscopic examination will suffice to establish a positive diagnoss a new method is suggested. This consists of the excision, through the author's operating cystoscope of pieces of ordematious microus membrane either from the suspected ureteral onfice or from suspicious lesions in the corresponding half of the bladder Such microus membrane will be found on micro-

scopic examination, to contain miliary tubercles
Experience at the present time with this new
method would seem to warrant the following con-

clusions

 It has been shown definitely that the excision of mucous membrane of the ureteric meatus may yield tissue containing mihary tubercles at a time when no positive evidences of tuberculosis of the kidney are at our disposal

 Miliary tubercles may be present in such tissues, although the only visual alterations of the mucous membrane are those which appear as cedema, even

to the trained eye

3. Such excised pieces make a pastive diagnosis possible when the uneteral catheter fails us, when the guinea pig inoculations are negative, when the urine is perfectly clear, and when the patient is presenting practically no symptoms.

4 Concentration and focalization of the tuberculous process at a ureteric meatus may occur early

5 Such milary tubercles may be found in the uncteric ostum, even though the rest of the ureter is almost free from tuberculous change and when the pelvis of the kidney, too, is but slightly affected

6 Cystoscopic belowy should be performed on the uretern online of the affected airt and leases of suspected renal tuberculosis where the ocular evidences are sufficient to warrant a suspicion of renal involvement, also whenever tubercle bacilli cannot be demonstrated and whenever positive evidences of the presence of a tuberculous process in the kidney are lacking

Hartmann: Pyelo-ureteral Tuberculosis with Integrity of the Kidney and Calices (Tuberculose pyelo urferale avec untegraté du rein et des caluces) Bull et mem Soc de chir de Por, 101, XXXX, 227. By Journal de Chrurgie

Hartmann remarks that it is exceptional to find lesions in the hylum and ureters with an intact renal parenchyma. He reports the history of a male patient, if 5 vars old, on whom he optrated in 1910. After febrile attack of grippe, the patient had severe pain in the left illulumbar region. A month later there was a slight hematuna and then muddy urine in which tubercle bacill were found. Two months later a lumbar nephrectomy was performed, the recovery from which was permanent and uneventify.

The lessons present were interesting. The ureter and byths were rigid and the mucous surface appeared downy. The calices were dilated but the lessons in the hylm stopped abrupity at a fine at the level of the calices. Though these were dilated, the mucosa was smooth grey and glatening. They were no tuberculous charges in the later. The later which hartmann found in the letteria Whitbolis which Hartmann found in the letteria which Hartmann found in the letteriature.

Tuffier believes the process described by Hartmann to be a beginning tuberculous hydronephrosis if allowed to continue, Tuffier believes that a bydronephrosis similar to the one he described would have developed

Denslow Kidney Function Tests. J Mo St M Ass, 1913, 12, 257 By Surg, Gynec & Obst

There are three general requirements of a reliable kidney function test

To ascertain not only the presence, but also the functional power, of the other kidney previous to removing a diseased kidney

2 Before undertaking any operation requiring general anasthesia on any patient who has suffered long continued unnary obstruction, as from hypertrophied prostate, to determine the functional power of the kidneys

3 To arrive at the amount of crippling suffered by the Lidneys from any disease which may have interfered with their secretory power

The test, to attain its highest usefulness, should be applicable by one without special training.

The determination of the urea output has been used to serve these purposes, but this is very deficient in that the amount of urea to be excreted in health and siscase is largely dependent upon the amount of protein stale and the amount of tissue destruction due to exercise as well as to disease destruction due to exercise as well as to disease control of the destruction of the due to the destruction of the due to the due to the destruction due to exercise as well as to disease district of the due to t

The requirements are best served by the phenolsulphonephthalein test of Rowntree and Geraghty, in which a known quantity of the drug has been appected intramuscularly or intravenously, and a normal time of appearance in the urine and a normal rapidity of excretion has been worked out, which is in no way dependent upon the quantity of utine excreted

The time of appearance by the intramuscular method varies from five to ten minutes and is thought by the author to be largely dependent upon the rapidity of absorption from the tissues, which

may vary with the general state of the body. From 40 to 65 per cent is normally excreted in the first hour, and 20 to 25 per cent in the second hour results of the intravenous injection are probably more indicative of the kidney function proper, as the question of the rapidity of tissue absorption does not enter into it. Then it normally appears in from three to five minutes, and from 35 to 45 per cent is eliminated in the first 15 minutes and from 50 to 65 per cent in the first half hour

However, disadvantages are found in the in travenous use of the dve when the ureters are catheterized, as one kidney may suffer catheter inhibition in the first 15 minutes and thus give a very faulty return, when in the course of an hour it

should have corrected itself

The result is computed by alkalinizing the hour's output, diluting it with water up to 1000 cc , and comparing it with a standard solution made by diluting the same amount of phthalein injected with This may be done either with 1000 cc of water the Hellige or Dunning colorimeter, or by using the following simple method Two small cylinders of glass of equal capacity, diameter and density are used, into one of which is put 5 cc of the urine dilu tion, into the other 5 cc of the standard solution Water is then cautiously added to the standard solution to bring down its color to the same density as the diluted urine when compared before a white background If it has been necessary to add 5 cc of water the urine would be of half strength or would be shown to contain 50 per cent of the amount of phenolsulphonephthalein injected

The test is valuable only in showing the present excretory power of one or both Lidneys, and may change from time to time as the condition of the kidneys or the body as a whole changes tests must be made to determine whether the condition is transitory or permanent, unless that point is settled by the diagnosis made from symptoms and the history of the case, which the test has been used to verify.

Sherwood The Prevention and Treatment of Ureteral Tistula, with Report of a Recent Case. Long Island M J, 1913, vii 45

By Surg Gynec & Obst

This paper refers particularly to persistent fistulæ resulting from accident and traumatism in the domain of pelvic and lower abdominal surgery Although accidental injuries of the ureter are now comparatively infrequent, it seems reasonable to assume that even under the most ideal conditions of knowledge, experience, and improved technique. and in the hands of the most dextrous operators, this unfortunate accident, although theoretically avoidable, will continue to happen in a varying small proportion of cases of pelvic surgery

The article included a résumé of the anatomy, etiology, and symptoms of this condition, together with a classification of the varieties of ureteral fistulæ, their course, diagnosis, and treatment

As a prophylactic measure, the author recom mends the routine practice of ureteral catheterization as a preliminary to operation in all cases involving deep and extensive pelvic dissection and where. as the result of a laterally displaced cervix, the normal position and relation of the ureter are Three methods of treatment are dis disturbed cussed

I Uretero vesical implantation This is the ideal method of dealing with these cases and the method of natural selection in the absence of renal

infection and other contraindications

2 Nephrectomy This may be done in the cases in which implantation has failed when the kidney is the site of a bad infection, and in cases in which the fistulous opening is too high to permit of an anastomosis with the bladder

3 Maintenance of the fistula By this 15 meant the proper provision for continuous drainage, a plan indicated in the cases in which, for any reason, one of the other methods cannot be employed

In effecting an uretero vesical implantation, the intra or transperitoneal route for exposing the ureter is preferable, in the opinion of the author, to the extrapentoneal method, in that it gives much freer access and exposure for necessary manipulation, an advantage of sufficient importance to outweigh the slight danger of peritoneal infection which with proper precaution is of very little moment

BLADDER, URETHRA, AND PENIS

The Early Recognition of Tumors of the Bladder. Boston M & S J , 1913, clxvnt, 302 By Surg , Gynec & Obst

The author expresses the opinion that since we can remove either a part or the whole of a bladder, we have adequate operative measures at hand for the treatment of these cases, that our only hope for better results hes in the earlier recognition and the application of those measures at a time when the tumor is localized

There is one striking symptom that most of these Not only is bleed cases show, that is harmaturia ing seen in a very large proportion of bladder tumors, but it is seen early As however it is usually pain less and ceases under any expectant treatment, there is an unfortunate tendency to underestimate the importance of this sign, and not submit the patient to careful cystoscopic examination at once favorable time for operation may thus be lost, since a second bleeding may not occur for months

The writer feels that every case of hamaturia should be looked upon as possibly the first sign of a bladder tumor and should be considered serious until its origin has proved to be unimportant

The use of the word "benign" as applied to papillomatous bladder growths is deplored Certain papillary growths that do not infiltrate the bladder wall, or lead to metastases, lead to fatal results through hæmorrhage and secondary gyclonephritis

Every bladder growth should be looked upon as essentially malignant. A personal case is cited in which the investigation of the first harmaturia showed a beginning carcinoma, confined to the superficial layers of the bladder, its removal had heen followed by freedom from recurrence, more than a year later. It is the writer's belief that the early and careful investigation of all cases of hamaturn will lead to the recognition of many more bladder tumors at a time when we may expect a definite cure from their excision

O'Nell: Observations on Recent Cases of Bladder Tumors at the Massachusetts General Hospital, with Special Reference to Operative Technique. Boston M & S J , 1913, clvin, 305 By Surg , Gynec & Obst

This paper deals with 10 cases of tumor of the bladder operated on by the Genito Urinary Service of the Massachusetts General Hospital during the last year. The oldest patient was 72, the youngest 18. others varied from 30 to 65

Pathologically, four of these were infiltrating cancer. In two the infiltration was slight in one the muscular coat was involved, and in the fourth the process was extensive, going beyond the bladder Three are described as malignant papilloma, there being a moderate infiltration of the pedicle were non malignant papilloma, and one case previously treated by high frequency cauterization showed chronic inflammation tissue only

Hæmaturia was or had been present in all cases. in some cases suggestive of bladder origin. In one case the anarmia was so severe as to require a preliminary transfusion, in another an emergency operation was done because of retention due to clots The diagnosis was made by cystoscopy in all cases

Suprapubic cystotomy was performed in four cases, all being papillomata with small pedicles not involving the ureteric orifices. We find it of assist ance to place three or four sutures in the mucous membrane about the growth, by means of which it may be steaded and lifted into the field. It can then be excised without handling, the resection including all coats of the bladder. This wound is closed with a continuous suture The bladder is sewed up tight, a wick placed in the prevesical space, and a catheter in the urethra. In two cases there was no leaking in the third, slight leaking for a few days In the fourth case, a sinus persisted for several weeks, in this case the bladder had to be reopened for bleeding and a tube introduced

Transperitoneal cystotomy we regard as the operation of choice in all cases of sessile and infiltrating growth where excision may be attempted or where a ureteral orifice is involved performed five times In all cases the peritoneum was closed, where the resection was extensive or the ureters reimplanted, suprapubic drainage was employed The ureter was divided and reimplanted in two cases. In the first of these no ureteral catheter drainage was employed, the new ureteral orifice became occluded and a ureteral fistula developed. This was successfully closed by a second operation, the ureter being opened near the renal pelvis, a No 7 ureter catheter passed into the bladder, grasped with a lithotrite, and drawn out through the urethra This drained for six days Recovery was uneventful In the second case the cut end of the ureter was split and sutured into the bladder The peritoneum was then incised at the bifurcation of the iliac artery, the ureter opened and a No 6 ureter catheter passed into the bladder and out through the urethra. The catheter drained well and was removed on the sixth day patient did well until the twentieth day after operation when he developed an embolic pneumonia On account of the greatly reduced size of the bladder the suprapubic sinus closed slowly and was still leaking when he left the hospital The extensive case of carcinoma was treated by curettage of the growth and cauterization of the base. There were no operative deaths

Watson The Surgical Treatment of Vesical Papilloma and Carcinoma. Urol & Cutan Res . By Surg Gynec & Obst 1013 XVII. 64

Watson's article is a review of the results of surgical treatment of vesical papilloma and carcinoma of the bladder from the time of Albarran's treatise on the subject till the present day. It presents the results of an analysis of some 1160 cases in which the ordinary suprapubic excision, the partial resection of the bladder — (a) intravesical, (b) transperitoneal - total cystectomy, and the application of the high frequency current of Oudin were employed respectively

The following conclusions are drawn by the author

I That the application of the high frequency current promises to be the most advantageous, as it assuredly is the safest, method of treatment for benign papilloma of the bladder That it is pre mature to use the term cure in connection with this treatment because but three years have elapsed since its introduction, and many recurrences have taken place at longer intervals after the removal of benign tumors by other methods That this method practically speaking, always destroys the That it is not regarded as appropriate for treatment other than palliative, of carcinoma of the That it has shown the capability of probladder curing relief from symptoms, however, in a certain number of cases of the latter nature

That the transperitoneal partial resection of the bladder has demonstrated its superiority to either the suprapubic intravesical resection or excision in cases of carcinoma vesica: It also anpears to be safer than either of the other methods. as well as to yield more permanent results than either of the others

3 That total cystectomy has never been given the opportunity to show what it can secure in the way of permanent cures, because it has but very 572

tately been employed in cases of early carcinoma. but in those only in which the patients were exhausted or already had metastases, because it has been done in a way which exposes it to special dangers from shock and renal infection, which have been bitherto the causes of almost all the deaths. operative and later, that have followed it author took this occasion to recapitulate the chiefly important points of the plan which he proposed to use in these cases in 1005 which are as follows

That the operation be divided into two stages -(r) the diserting of the urinary secretion (2) the removal of the bladder. That the first sten be accomplished by entirely abandoning all forms of preteral implantation because of its danger from renal infection, and that bilateral preliminary nephrostomy be substituted in its place bladder be removed later, and that the operation he applied only to cases in which the disease is in an

early stage of development This plan has never been wholly adopted 1 fcw surgeons have divided the operation into two stages but none have done so by bilateral nephrostoms, which the writer claims is far freer from danger of renal infection than is the other method of accomplishing the diverting of the urine. He believes that if his plan of procedure be adopted in proper cases the mortality of the operation will be greatly reduced and far more permanent results will be obtained Aspecial apparatus devised by him keeps the patient dry and comfortable and allows an active life.

Reer: Treatment of Benign Papillomata of the Urinary Bladder with the Oudin High Frequency Current Introduced Through a Catheterizing Cystoscope Med Rec By Surg Cynec & Obst IXXXIII, 242

Experience has shown that benign papillomata are more common than malign in the urinary bladder, also that operative removal of these growths through a suprapuble incision rarely leads to a cure as recurrence is the rule. On the other hand it has been proven by Nitze and others that removal by means of the operating cystoscope is perfectly feasible and that the chance of recurrence is much smaller The operating cystoscope has, however, never become a favorite instrument, not only because it is difficult to use, but also because it is time consuming and complicated Very few surgeons have succeeded in operating any considerable series of cases successfully with these instruments

The new and simple method advocated in this paper has been thoroughly tested by more than thirty surgeons, and they have stamped the new method with their approval, both as much simpler than previous methods and much easier on the patient, because examination and treatment are carried on through the same instrument at one and the same time Moreover, from results obtained up to date, the end results compare very favorably with those obtained by the best previous methods

The great simplicity of the method puts the treatment in the hands of many more men than it was when the operating systoscope was the method of charce

The new method, in use now for three years, consists of the application of the Oudin current to the papilloma, by which means this is rapidly destroyed and subsequently voided in small pieces in the The electrode is introduced through any cathetenzing systoscope and the applications are made at various spots, for to seconds at each. The electrode is placed among the villi, and while the current is on gas is seen to develop and pieces of the growth are violently torn off. A spark is seen only when the application is superficial. After a few days the second treatment is given, if any more viable growth is seen. At this examination one regularly sees the extent to which the current has acted at the tirst seance shown by the recrutic will, which are now dead white in color At this time it will also be apparent that a large part of the growth has dis-

appeared having been voided in the unne The treatment is no more painful than an ordinary existosceny and the current causes no pain unless the bladder wall is touched, which should be avoided very carefully The simplicity of the therapy is such that it is regularly carried out in an ambulators manner the patients not being laid up

at all The following cases should not be treated by this method but should be operated (a) VI carrinomata, (b) all intolerant cases, (c) those large growths at the neck of the bladder that are tranmatized by every introduction of the cystoscope and bleed profusely thus clouding the media and preventing careful work (at times even in these, an application of the current near or at the bleeding point will control the bleeding as the current is a remarkable harmostatu) (d) those (ew cases in which the

tumor is inaccessible For more details the paper read in Berlin will have to be consulted as well as the papers by the author referred to therein

Binney The Value of High Frequency Cauterization in the Treatment of Vesical Papillomata Boston M & S J 1913 clavat 308

By Surg . Gynec. & Obst.

Although sufficient time has not yet elapsed to establish any claim of permanent cure, the immediate results of treatment by this method are so strikingly good that a comparison with older methods is proper at this time. The technique usually followed is that described in articles by Leves and Beer

Compared with suprapubic cystotomy and removal by excision or cautery, which has a mortality of 3 to 14 per cent attended by danger of complications such as hamorrhage, sepsis, etc., and which is known frequently to be followed by recurrence, high frequency cauterization has no mortality, is free from danger of serious complications, and appears to

accomplish the removal of papalloma completely and permanently. Only one case showed a right out of twenty cases reported by Keyes, Beer, and Buerger, all of which were followed for at least ast months. The author has had one case free from recurrence at the end of one year, and four other followed for shorter periods, also recurrence free. One of them was case of multiple papilloma operated on suprapulucally four times in four years, and pronounced malagnant by the pathologist

After the last operation eight recurrent papillomata were found, which were removed by high-frequency cauterization, and the patient now has a clean bladder except for a small tuft on the suprapulic scar which has not yet been completely de-

stroyed

The author reaches the following conclusions

1. High frequency cauterization is an important
addition to our means of attacking vesical papillomata of the non-infiltrating type

2 It is free from complications or danger if properly applied, with exception of hæmorrhage, this appears, however, to be rarely serious or trouble-

- 3 It avoids the danger of multiple recurrences such as occur not infrequently after suprapubic cystotomy
- 4 Although the cases so treated are too recent for absolute proof of cure, the results are highly encouraging

Bucky and Frank: Operations on the Interior of the Bladder with the Aid of High Frequency Currents (Uber Operationen im Blaseniners mit Hille von Hochfrequenzströmen) Munchen med

Wchnichr, 1913, lx, 348
By Zentralbl f d ges Gynak u Geburtsh s d Grenzgeb

The authors have attempted to verify the results of Beer on the treatment of tumors of the bladder by the use of high frequency currents and to show the advantages of this method over the old procedure of using the glow snare (glukschlinge) They used alternating currents of high frequency (several millions per second) which like all other electrical currents is transformed into beat according to the ohms resistance, and thus on account of the great resistance in the human body it produces a certain amount of heat without producing any chemical effects on the musculature or nerves. One is able to use strong currents without any subjective signs of irritation Further advantages are the possibility of employing currents of low tension (for the transformation of a strong current into a warm high tension current stimulates the nerves and forms sparks), and by the choice of electrodes at the site of operation any degree of heat can be applied Just as the greatest evolution of heat occurs with a conductor of smallest cross section, so the greatest amount of heat is produced at the punctiform electrode The more pointed the electrode the greater the surface action The broader it is the greater the deep effect (pedunculated polyp, deep action, stem narrowest place, stem shrinks, polyp falls off). Practical application On the body a wide electrode (up to 200 sq cm) should be employed while in the bladder, filled with salt solution to prevent spark formation, a small electrode, passed through the operation cystoscope and brought close to the tumor, is used Starting with a weak current and increasing to the strongest, one sees first a whitish discoloration, bubble formation in the water, and a crust forming at the point of contact of the spark Danger of rupture of the bladder is shight serious are the tumors whose narrowest portion is in the bladder wall Observations are recorded on three cases (multiple papilloma polypi) all of which were cured. The advantages of this mode of treatment are ease of application, painlessness, security against infection short duration of sittings (11% to a minutes) The authors strongly recommend their new knifelike electrodes PETTSCH

Buerger Ulcer of the Bladder. J Am M Ass, 1913, lx, 419 By Surg, Gynec & Obst

The author calls attention to the fact that simple solitary uler of the bladder is regarded as a very rare affection and that in all probability it is frequently overlooked in a routine inspection of the bladder with a cystoscope. Such was the case in the two patients who came under his observation. The two patients who came under his observation for realist of treatmap be drawn from the history of the case of treatmap to draw two reported cases may be summarized as follows:

r A careful search should be made in all cases of vesical hæmaturia for the presence of simple solitary ulcer of the bladder

2 Bleeding ulcers may be overlooked if we fail to bring every portion of the superior and posterior

wall of the bladder into view
3 The most striking symptom in the cases under
observation was hamaturia, persisting for more

than two years in one of the patients
4 In the treatment of this condition the fulguration method should be tried, and if this fails mercurial injections should be given in cases of simple ulcer of the superficial variety

Recent clinical investigations have shown that there is a type of simple uleer of the bladder which may be termed chronic and callous Such ulcers should be excised with the author's punch forceps through the operating existscore.

Felber: Lithotripsy or Lithotomy (Lithotripsie oder Lithotomie) Munchen med II chusche, 1913, lx, 242 By Zentralb! f d ges. Chir u 1 Grenzgeb

The author, basing his statements on 900 operations guthered from the literature, advises lithotings) instead of lithotomy. In only four cases was a suprapulse removal of the stone could usually be done at one removal of the stone could usually be done at one termoval of the stone could usually be done at one termoval of the stone could usually be done at one termoval of the stone could usually be used. In the remainder, a local anaesthesia had to be used. In the remainder, a local anaesthesia of a per cent cocaine in the urethra and nock of the bladder

sufficed The mortality is very small, scarcely a half of rpercent (4 deaths in 900 operations). There is the additional fact that patients who are afraid of a cutting operation can be persuaded to lithotripsy which seems to them harmless They can usually go to work on the second day

MUNICIAN

Bryan: Diverticula of the Bladder, with Report of a Case Am J Urol, 1913, 1x 72 By Surg, Gynec & Obst

Diverticula may occur in any of the mucous tubes of the body when by virtue of mural weakness, extraneous traction or distal resistance, the expulsive force and physiologic emptying power are mechanically embarrassed

Diverticula occur most frequently in the urinary bladder Developed from a tube the aliantois serves a threefold duty -(i) dilatation, (2) obliteration,

(3) vascularity

It is about the base and flanks of the urnary bladder that the muscular bundles are well organized. It is here that the arterial supply to the organ gains entrance. The significance of these two factors is evident. In later hie depressions and valleys are formed here and there, which are dilated and ballooned until cavities are formed which may hold any ouanity of urne.

any quantity of unne Diverticula may be congenital or acquired Harrison classifies the acquired as (i) intra uterine (2) obstacles to urmation, (3) traumatic The well-defined contractile muscular pouches are congenital and the mucous extrusions are acquired

gentar and the muons extrusions are adjusted in Interstitual changes of the muscular bundles, irregular replacement fibrosis, gives an unevenness of resistance which invites sacculation. Afteriosclerotic changes in these vesical arteries form in elastic cords about which the muons membrane may be readily bulged. Acquired diverticula are

may be readily sugged. Acquired discretical are found frequently about the base of the bladder. Ulceration and inflammation of the sac bear upon mortality. Muscular diverticula should empty.

themselves more frequently than the mucous type Diagnosis Peticke calls attention to intestinal upsets Perthes cites a case in whom diagnosis of renal hemorrhage was made Rothschild emphasizes the use of the cystoscope Harrison suggests the catheter as a guide for diagnosis Demoulin says strangury is only found where the connection

of diverticulum and bladder is wide
Congenital diverticula are usually lateral or at the

apex rarely anterior Stone in diverticula may be single or multiple Cancer and papilloma of diverticula both have been found in bladder pockets. Hermia diverticula are found on frequent occasions. Diverticula are usually single, but may be of any

number Congenital diverticula are regularly single Rothschild says the opening of the congenital diverticula into the bladder is usually wide, irregular, round, or oval Cholzoff states that diverticula complicated with infection are dangerous

Treatment (1) The clean (2) The infected From an anatomical standpoint, and for ease of access, the writer selects the suprapubic extraperitonal approach. Englisch states that in certain cases partial resection of the pubic bone is justifiable Pagenstecher recommends only the sacral route.

Gorodistsch: Pathology and Treatment of Proliferating Vegetative Cystitis of the Neck of the Bladder (Zur Pathologie und Therapie der Cysti tis colli proliferans s vegiatativa) Zischr f Urol,

1913, vn, 81

By Zentralbl f d ges Chir u i Grenzgeb

In the case reported the above disease developed following a chronic gonorrhoad of the posterior part of the urethra in a man 25 years old. The diagnoss was made by cystoscopy. After cautering, the growth with a platinum cautery and irrigating the bladder there was marked improvement. The cause bladder there was marked improvement. The cause must be regarded as smullar to that of the pupilions must be regarded as smullar to that of the pupilions.

Pfister Calculus of the Urethra in Infection with Bilharzia (Ein Harnrohrenstein bei Bilharziakrank-

irritation of the gonorrheral secretions

heit) Zischr f Urol, 1913, vii, 97
By Zentralbl f d ges Chir u i Grenzgeb
Stones in the wrethra are not uncommon in

Stones in the urethra are not uncommon in bilibarain infections (seven per cent). They are formed either in the upper urnary passages or in the urethra. The author publishes a case of this kind. The stone consisted of urates and une and it was obtained from an Arab boy, no years old, who complained of difficulty of micrutinon and radiating pain. The stone could be felt in the parspendula. In the urine there were found eggs of the distornium harmabolium. The stone was examined histologically, and showed eggs of the biliharria. The propheral layer was made up of crystals of the propheral layer was made up of crystals of the complete of the control of whether the stones were formed in The question of whether the stones were formed in the control of

Ottow A Primary Urethral Carcinoma of the Fossa Navicularia (Ein primares Urethral-carcinom der Fossa navicularis) Zirchr f Urol, 1913 vi. 30 Bv Zentralbt f d ges Chir u 1 Grentgeb

Up to date 57 cases of carcinoma of the urchia are reported in women and 42 in men. The pars cavernosa and the pars membranacea are cites of predilection in men. The author's case is the first originating in the fossa naviculars. The pens of the 69 year-old patient was amputated. After half a year there is no recurrence. OF MEMERER.

Schley Dilatation of Tight Urethral Strictures
Causing Retention Surg., Gynec & Obst., 1013,

Ey Surg., Gynec & Obst.

Occasionally, even with the aid of the endoscope, it is impossible to pass a filtform through a tight urethral stricture which is causing retention. The injection of oil and the use of cocaine and adrenalin have been of great service, but they must come in

contact with the strictured area. This cannot al ways be done by merely filling the distal urethra with the material An endoscope passed to the ornice of the stricture puts the mucosa on the stretch, developing the opening, and if then a blunt pointed round end needle of hypodermic type, about 4 F. diameter, is pressed against or as far in the orifice as extremely gentle pressure will allow, and a few drops of cocaine-adrenalin mixture is introduced, in a few moments it will be possible to insert the needle very appreciably farther in After it has entered 4 or 5 mm, a No 5 F woven ureteral catheter with taper end is substituted and the injections made through this, advancing after each The catheter is smooth, flexible especially the tip, and takes any irregularities in the stricture well. Ten or fifteen drops of solution are usually abundant Urine may be drained off in this way or the catheter used as a guide for a urethrotomy If urethrotomy is not done at the time, it is well to leave one or two filiforms through the stricture, as it will contract down again and reten tion ensue as before. This procedure has served well for those strictures situated far enough forward to be instrumented from the meatus with accuracy The stricture may be cut at the time or reserved for dilatation later, as the surgeon prefers method, first used by the author seven years ago is useful in passing some of the more difficult urethral strictures for relief of retention or as a guide in urethrotomy The relative merits of urethrotomy or dilatation or the retrograde passage of strictures perineal or suprapulic, are still being debated We have here a non operative or non cutting procedure for the passage of certain prethral strictures, many of which can later be dilated up to full size urethræ without difficulty or trauma

Lothrop. The Closure of Obstinate Perineal Fistulæ Following Operation for Stricture of Urethra, the Prevention of These Fistulæ Boston M & S J, 1913, ckvin 188 By Sure, Gynec & Obst

The author divides the lessons which may be followed by obstunate permeal fistulae into three groups of) cases of unnary extravastion, (2) fistule after Penneal prostatectomy, (3) fistule following operation for stricture. He details his method of closure of these pernistent fistule. Working on the basis that fistula persists as a result of mechanical conditions the unite following the path of the less treated that the stricture of the following the path of the less treated that the stricture of the stricture o

This dissection has for its aim the removal in toto of the fistulous tract from skin to urethra. The walls of the tract are to be left reasonably thin, but not so thin as to break under the traction neces sarily imposed. When the base of the tract is

reached a ligature is passed around the junction of urchina and tract, for this No 1 chromicated gut is used. A catheter à demeure is left in place and the cut edges of the perineal wound approximated by deep sutures of silkworm gut or silver wire These are removed after ten days. The after treatment is the same as for any patient wearing a catheter for bladder drainage. The catheter into the bladder is left in place also for ten days. At each of this time healing Junch acceptance and the properties of the place also for ten days. At each of the catheter into the bladder is left in place also for ten days. At each of the day is conditionally and the place of the place and the place of

Edmunds: An Operation for Hypospadias. Lancet, Lond , 1913, clxxxiv, 447

By Surg , Gynec & Obst

In the operation described, a new urethra is formed out of the prepuce, which in hypospadias is represented by a large hooded flap of tissue on the dorsum of the penis The prepuce is chiefly vascularized by one or more vessels which enter it on the dorsum of the penis near the middle line The operation is performed in three stages, which are described in detail with diagrammatic drawings The operation can be performed at any time after the age of 3, but it is certainly easier when the patient is older, as the parts are larger and simpler to handle The stages are at intervals of about three months Chromic catgut is used throughout, and he does not make use of a catheter to prevent the flow of urine over the wound He has now operated on 5 cases, 2 are completely healed, one has a fistulous opening which remains to be closed, and in 2 the third stage has not yet been attempted DONALD C. BALFOUR

GENITAL ORGANS

Ashcraft The Surgical Treatment of Epididymitis. Am Pract, 1913, xlvu, 53 By Surg, Gynec & Obst

Epiddymits in its several types is frequently met with The gonorrhead varety occurs as a complication of urchimis in about 15 per cent of cases It aims by direct extension from the posterors of

Medical treatment simply alleviates A patent canal may only be insured through surgery The technique employed is

General anæsthesia and iodine preparation
 Exposure of epididymis through the usual incision for hydrocele.

Multiple puncture of eprindymis rurely an incision is necessary

 Express our from abscesses s. Return epididymis within tune 1 1 the several sutures through the upper portion of runita and scrotum Drain the lowermost pertin p for several days or longer This reduces fever un town diminishes discharge and often abruptly terministes the attack. Nodules disappear about two months following operation, when semen may be extressed from the previously diseased side This means a patent canal

When seminal vesiculitis complicates vasostoms is done at the same sitting, thus allowing draining and medication of seminal vesicles. The vas is exposed at a point on the anterior surface of the scrotum near its entrance through the external abdominal ring. A small longitudinal incision is made in it. It is then anchored to the side of the scrotum

Where prostatic or vesicular abscess complicates an added perinerl section gives effectual drainage Relapsing epididymitis is treated by vasostomy and applications to the posterior urethra Castration is indicated for abscess of testicle. Emdidymeetomy is practiced for the tubercular variety The vas should be removed, its edge touched with phenol, and statched to the side of scrotum allows drainage from seminal vesicle Occasionally castration is indicated, unless bilateral tubercular epididymitis exists, when epididymectomy and erasion should be practiced

Cases are cited illustrating each type

Mark: A New Suprapuble Drainage Apparatus J. Am M Ass , 1913, lx 514 By Surg . Cynec & Obst

It has been the experience of the author that the various devices for permanent suprapuble drainage heretofore presented to the profession have been inefficient, cumbersome, and uncomfortable considerable experimentation along this line he has devised an apparatus which is comfortably borne by the patient and which affords excellent drainage

It is composed of a colostomy pad through the center of which is placed the short arm of a rightangled German silver tube of sufficient caliber to afford free dramage. This short arm is divided into two parts fitting into each other by a bevel joint The distal point is fitted with a shoulder for the attachment of a stiff-walled soft rubber tube which is inserted through the suprapubic wound into the bladder. This tube can be regulated in length so as to just enter the bladder cavity. The long arm of the silver tube lies flush with the outside of the colostomy pad and has a shoulder for the attachment of a tube leading to the leg urinal

The apparatus is comfortable and can be worn under fairly snug fitting clothing. It permits of easy cleansing and has the virtue of Leeping the patient dry All in all, it is the most satisfactory appliance for the purpose which the author has used Goldberger: Technique of Supranubic Promises tomy (Zur Technik der Prostatectoma gerenden) Zitche f Urol , 1913 vu, 194

By Zentralbl f d ces Chir u. l. Grenzeh

The author discusses the method of anzsthetzing in prostatectoms and its significance in the result of the operation Freyer reports 200 cases of protatectomy with nine deaths, of which six were die to the any thetic. Young gives a mortality of 38 per cent of which half were attributed to the anasthetic Zuckerkandl, in a mortality of 17 per cent attributes 70 per cent of the deaths to the anysthetic Spinal angesthesia cannot be used be cause it cannot be employed with ease in old persons and besides it is dangerous. The author room mends I scal anysthesia and the operative technore of Chevassu determination of Lidrey function by determining the urea constant according to Ambard. If the value is above o is the operation is dargerous.

liter the usual preparation, the area is anasthe tized with a novocaine solution of 1 to 200 (without adrenalin) After the skin incision, I cc. is injected into the fascia up to the upper border of the symphysis and the muscle laver is also infiltrated The bladder is filled with air. The anasthes a of the prevesical space takes place through the posterior layer of the fascia Infiltration of the bladder wall, on both sides of the midline, follows, after opening the bladder. The prostate is enu cleated after the patient is quickly put to s'eep with ethyl chloride Incision of the mucosa and enucleation are done by means of the nails of the middle and index fingers which are allowed to grow long The prostatic area is drained and the bladder arrigated with hot water A catheter is introduced There were three deaths in 30 operations, none of which were due to renal insufficiency or infection

KOTZENBERG.

MISCELLANEOUS

Polarkov The Influence of Fasting upon the Sexual Glands of Dogs (L'influence du jeune sur le travail des glandes sexuelles du chien) Comptrend hebdom d stance d l. soc d biol , 1913, lxxx

B) Zentralbl f d ges. Gynāk u Geburtsh s d Grenzgeb Two male dogs were subjected to a three months period of partial starvation, then were fed to excess During this time seminal fluid was obtained often by mechanical stimulation During starvation time the seminal fluid decreased from 10 cm to 2-1 drops and the number of spermatozoa from 132 billions to several 100,000 - besides showing serious degenerative characteristics The spermatozon first lost their motility, next, their tails became twisted and finally there was nothing left but the heads plus fragments of protoplasm Some doubleheaded spermatozon were found. All these changes ceased only after a prolonged period of excessive feeding. In a testicle excised during the period of manition there were found in the seminiferous tubules many cells of sertoli and spermatocytes but very few spermatogonia These observations lead to the question whether, by fasting, a total disappearance of the spermatogonia—hence, a complete castration—could be produced

Conclusions 1 By prolonged starvation the weight of the animal experimented upon decreased by ½ and the activities of the accessory and the true sexual glands dropped to a minimum. 2 Spermatogenesis ceased 3 Degenerated spermatozoide appeared Spotz.

Walker: Paths of Infection in Genito-Urinary Tuberculosis Lancet, Lond , 1913 clxxxxv, 435 By Surg , Gynec & Obst

The task of tracing the path of a tuberculous invasion is not an easy one, because structures may be shown under the microscope to be absolutely free from signs of tuberculosis and yet, nevertheless, have furnished the path along which the tuberculous invasion has progressed. The author says that tubercle of the testis, like tubercle of any other part of the genito-urinary system, is almost invariably a secondary lesion. Kocher's statistics show that in a series of 451 necropsies on cases of urino genital tuberculosis, over 80 per cent demonstrated pulmonary lesions. He first considers whether the path of infection is ascending or descending are two theories, the first group comprises those who believe that in the majority of cases of genital tuberculosis the disease starts primarily in the testis, and from there ascends along the vas toward the prostate The other group maintains, on the , other hand, that the primary focus is almost invariably in the prostate, and that the testicle is involved only by a secondary descending extension along the cord The theory of an ascending infection is based on the belief that tubercle bacilli cannot descend the cord in a direction which is opposite to that of the secretions Enormous discrepancies exist as to the percentage of cases of genital tuberculosis in which the prostate is normal states that in 51 cases of tuberculous epididymitis that were examined by him, the prostate and vesi tles were affected in but a single instance maintains that in every case of tuberculous testicle which he has examined during the last ten years he has been able to find some indication of a pathologic condition in the prostate Walker's own observations are in accord with those of Keyes Some indication of the true sequence of events in these cases may be obtained by a careful consideration of the appearance and apparent age of the lesions in the prostate and in the testicle the pathologic specimens which the author has had the opportunity of examining the appearances were such as to suggest that the tuberculous deposits in the prostate were more mature than those in the enididymis. That the tubercle attacks the epididymis before it invades the body of the testis

is a time-honored observation. He thinks the explanations usually given are inadequate to account for so constant a feature as the involvement of the enididymis before the testis. If, however, we accept the hypothesis that the infective agent has reached the testicle not by the blood stream but by traveling down the cord, we have an immediate and satisfactory explanation of the fact that the epididymis is infected previously to the body of the testude. The enididymus is the first outpost gained by the invasion descending the cord In every one of his cases the first signs of disease were detected in the lower and not the upper pole of the epididy-Tuberculous disease of the testicle is analogous to acute infections which are known to have been produced by extension from the urethra ordinary type of tuberculous epididymitis has no analogy to the hæmatogenous orchitis of mumps By a series of experiments carried out personally after the method of Blandini he shows the following facts (1) Micro organisms and manimate granules are rapidly absorbed from the urethra and carried to the testicle (2) A tuberculous epididymitis may be experimentally obtained by inoculating the urethra after having damaged one of the testicles

The author then takes up the etiology of tuberculosis of the prostate, which has four possibilities (1) Infection by the blood stream, (2) extension of the disease by continuity of structure. (3) direct infection per urethram, and (4) infection through the agency of the urine All of these modes of infection are to be met with, but he lays special emphasis on the importance of the usine as a vehicle of infection He thinks in a very large number of cases of tuberculous disease of the prostate a primary focus exists in one of the two kidneys, but a certain number of cases of prostatic and vesical tubercle occur in which a careful investigation of the kidney fails to discover the changes that are commonly regarded as characteristic of tuberculous processes. He then considers infection by the urine in the absence of a typical renal tuberculosis. and states that whenever there exists a tuberculous focus in the body there also exists the probability of an abnormal permeability of the kidney, and the occurrence of bacilluria The author conducted a series of experiments with a view to obtaining further information on the subject of ascending urinary infections in general and the path by which organ isms from the bladder may reach the kidney their means be was able to satisfy himself that organisms from the urethra can actually reach the kidney without the existence of any obstruction of the unpary flow. He next investigated the path along which the organisms traveled in their journe) from the urethra to the upper end of the ureter and found that the connecting link in such cases is the plexus of lymphatics surrounding the ureter DONALD C BALFOUR

SURGERY OF THE EYE AND EAR

EYE

Nagel, Ibershoff, Bissel, and Stewart [Symposium]: Glaucoma. J Ophih, Oiol & Laryngol, 1913, xix, 56 By Surg, Gynec & Obst

NACEL PATHOLOGY OF GLALCOMA

In this article, the first of a symposium on glaucoma, the author takes up a brief history of the disease, a classification of its forms, the anatomy in the region of the anterior chamber angle, senile changes that influence tension, ciliary staphyloma,

and glaucomatous excavation

Glaucoma is a term used in the broad sense for all those conditions in which the intraocular tensions in pathologically increased. Secondary glaucom the result of some previous inflammation, from the standpoint of pathogenesis is the most easily explained. It is due to annular or total posture as pacha, perforation of the cornea with anterior spatchia, perforation of the cornea with anterior spatchia, the spatch of the production of the lens into the anterior chamber, wounds of the lens, operations on the eye, intraocular tumors or hamorrace, and annular,

Primary glaucoma is usually bilateral and occurs in an eye that his suffered no previous inflammation. Glaucoma simplex is looked on now more as an atrophy, and gives the worst prognosis for

recovery with operative procedures

The anatomical conduson at the angle of the anterior chamber is admirably adapted to filtration The blood-ressels are reduced to endothelist tubes, and their walls are adherent to the surrounding sclera so that the lumen is kept constantly open The Ingamentary Peterson of the Section of the Control of the

There are two chef theories one that there is an obstruction to the outflow due to changes in region of the hamber angle, the other the hyper secretion due to the same and the secretary that there is an increase in the total region of the secretary that there is an increase in the total region of the secretary that there is a factor in the public geness. The association with old age is based on a general or localized vascular acterous in

The increase in the size of the lens or the disproportion between the lens and the other contents of the eye is another predisposing factor

Chinical symptoms explained from a pathological

standpoint are as follows: Rainhow colors are due to an exdema of the cornea, dulated pupil in the beginning is due to prin, later to mechanical shorteng of the irrs from peripheral synceba, ectropoin of the pupillary pigment quite characteristic in appearance, gives us a clue to the atrophic parts of the iris, rapidly progressing presbyopic is due to the congestion of the clirary processes

IBERSHOFF OCULAR TENSION, AND ITS RELATION TO

BLOOD PRESSURE

In this article the author defines ocular tension, escribes the use of the Schotz tonometer, shows

describes the use of the Schotz tonometer, shows the relation between blood pressure and ocular tension with severi cases to illustrate, and discusses the influence of this relation on the treatment indications.

When we speak of intraocular tension we mean relative compressibility or hardness, the resistance of the corneo scieral envelopes to the intraocular pressure Agrictions in intraocular tension usually indicate simply an increase or decrease of the contents of the excball viz the anueous, vitreous, and most of all the blood supply. Every increase or decrease in blood pressure results in a correspond ing temporary alteration in the ocular pressure The temporary change is quickly compensated for . by the reciprocal alteration in lymph secretion Prolonged change in the intraocular tension is brought about by the loss of compensation The rate of secretion depends on and varies with the difference between blood pressure and tension of the eveball The specific gravity of the secretion is increased with the blood pressure and inversely with the ocular tension

If increased blood pressure coexist with glucoma, the practice of releving tension either by opening the anterior chamber or by scleral puncture is obviously fallikations insimuch as the resulting difference between blood pressure and the eye tension must result in rapid reformation of the occult fluids of a much higher specific gravity and osmotic coefficient? It would seem advisable that no operative measures be undertaken without previously, Ohly by so doing can be restrict the formation of ocular fluids and reduce their percentage of solids, or guard against explosive himmorrhages

BISSEL SOME OBSERVATIONS IN GLAUCOMA WITH SCHIOTZ'S TONOMETER

We have in this article some comments on the importance of accurate tension taking, a technique insuring this accuracy, and some observations taken from 34 cases with reference to the effect of certain therapeutic agents on the introduciar tension

The author has used only the Schotz unstrument, herefore he can give no compursion with the instruments of other devign. He has found that the services of an assistant are essential to the accurate use of this tonometer, so that the eyes of the operator may be directed constantly toward the cornea of the patient. By this means, the eye which has been anasysthetized with holocute or allypine may be protected from injury, as the instrument may be protected from injury, as the instrument may also perfect the long arm may also be kept perior. The long arm may also be kept perior who into the patient of the patient of the patient of the patient. The long arm may also be kept perior who in the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of the patient of that instant.

STEWART, ITS CAUSE AND CURE DEMONSTRATED
IN THE LABORATORY

This is a review of the laboratory work of Martin II Fisher on ocular tension with its practical or clinical application in glaucoma

In a consideration of the relation of the tissues to water, it has been shown that protoplasm under normal circumstances holds nearly a constant amount of water. With changing conditions the amount will vary greatly, a single cell may be made to absorb enough water to burst it This latter condition is an ordema as truly as any dependent on a circulatory system for its production Glaucoma is a local cedema, and all its symptoms are referable to increased ocular pressure, which depends upon the abnormally large amount of water held by the eye in this condition Fisher has demonstrated that the most intense grades of glaucoma can be induced experimentally in the eye in the entire absence of any circulation

À cause of glaucoma may therefore reade in the ye sitelih because through certain changes, depend ing upon the general state of the system the rollouds absorb an increased amount of water. The eye of any animal will swell by absorbing more water of dropped in a solution of any and. The presence any sell in the acid solution markedly decreases any sell in the acid solution markedly decreases also of critical carriers, and the sell of the any sells of critical carriers, and the sells of critical, tartizet, sulphate, and phosphate of sodium and poisssum decrease the tendency to seeling of this type.

Now as to the relief of glaucoma, sodium citrate is best adapted in 405 per cent or 54 per cent solution, and 5 to 15 drops of this are injected

subconjunctivally. This treatment will rapidly reduce the tension. A detailed report of 10 cases, 1910 retared will be found in the Annal's of Ophthalmology, 1910. The duration of the reduced tension will be from three to six days, sometimes more. To obtain permanent results the proper regulation of diet and by gienic conditions must be taken up so that the fluids circulating around the cye will agrain assume their normal character. Early B FOMER

Ruhland Ganglionic Glioneuroma of the Optic Nerve. J im W 131 1013, lx, 363 By Surg Gynec & Obst

The case occurred in a girl of eight. Although a history of some cye trouble dated back for at least two years no physician had seen the case, until, at the age of eight the child contracted servlet fever with a rapidly developing evophthalmus.

Upon enucleation of the tye, an oblong semiductuating well incapsulated tumor was found to occup; the position of the optic nerve measuring 3 cintimeters in length and 1 5 centimeters in width Microscopically, the tumor was composed of

Microscopically the tumor was composed of neuroglar tissue, forced apart by hæmorrhages and oedemi which had occurred into it. It also showed typical ganglionic cells and nerve fibers. The eyeball itself showed absolutely no involvement

This tumor undoubtedly was of congenital origin and represented misplaced nerve tisse. Its growth was characteristically slow until the febrile condition of the scallet fever with its accompanying hyperemia stimulated the tumor into active growth which, together with the hamorrhages and ædema, caused its rapidly micrasing size.

There was no history of similar tumors among other members of this family or their near relatives

Buchtel. The Treatment of Pulsating Exophthalmos; with Case Report Ophth Rec., 1913, xxii, 75 By Surg Gynec & Obst.

Burktel reports a case of pulsating exophthalmos in a boy eleven years old, who had been struck on the head with a pitchfork. He says although orbital operations have been known for forty years, nevertheless the popular operation and the one most advised has been the tying of the common carotid or the fastening of the common carotid with the internal and external carotid. No one appreciates better than the general surgeon the gravity of this procedure the morthly being over 10 per cent. He believes custom is the only authority one can find now for doing this operation.

Lansdown Noyes Woodward, Samahonsaly, Golwin, Laseren Boden, Dollinger, Weeninger, Sattler, Burghard and Pritchard, and Gifford have all done orbital operations successfully for this condition, some of them being done after the unsuccessful ligation of the carotid. Yet it seems that these operations have not been given sufficient prominence to change the customary method of treatment. The operation is very simple, merely the distal liga-

tion of the veins in the orbit, and the mortality should be almost nil. He was unable to find the details of any of these operations so he describes

the operation in detail,

The eyebrow was shaved. General anasthesia was used. An incision in the eyebrow two inches long was made from a point very near the middle line. The skin flaps were turned up and down Many dilated superficial veins were cut which required ligature. The angular vein and superficial temporal were both dilated and were cut. The superior ophthalmic formed by the junction of the two radicles above named was followed into the orbit, back as far as possible without damage to the eveball and ligated with plain catgut. A piece of gauze was placed over the eye and Coover listened with a stethoscope and reported that the bruit was entirely absent. A subcuticular stitch of plain catout brought the skin surfaces together

Following the operation considerable ordema of the eveball developed. The conjunctiva of the lower lid protruded as a definite fold and was punctured on two occasions Aside from this, the treatment was merely cleansing boric stupes and washes and argy rol instilled in the eye. The patient was kept in bed a week. He left the hospital in two weeks On leaving the hospital the exophthalmos was not improved if there was any change it was greater than before the operation. There was still some ordema of the conjunctiva This ordema lasted a month in all A definite thrombus could be pal pated in the top of the orbit during this time It felt like a bard cord extending back as far as the finger could teach

There was no brust after the operation and no pulsation. The exophthalmos gradually diminished and three months after the operation there was practically no difference between the two eves

The vision as reported by Coover is 20/20, no diplopia, background of eye normal

Jackson found no abnormality in the background of the eye and a protrusion of only 614 mm

The scar left was a mere line and concealed by the evebrow so that the closest observation was required to detect it The boy is well and furthermore be was not subjected to a hazardous operation

C G DIRLING

Collins: Tumors of Orbit: Plea for Operation

Bril M J , 1913 1, 380 By Surg Gynec & Obet The author cites five cases of tumors of the orbit as a plea for operation in these cases which he thinks are too often deprised of the benefits to be derived from surgery Four of the cases were sarcoma, one of which was operated on four times in the last five years and is still alive The operations were radical, consisting of thorough cleansing of the orbital fossa followed by cauterization with zinc chloride and opium paste. One patient died later, evidently from metastases. One was a case of venous cavernous angioma containing phleboliths M S HENDERSON

Thomson: On Aseptic, Antiseptic, and Prophylactic Measures in Ophthalmic Surgery: Observations Made in Various British and Continental Hospitals. Glargow M. J. 1913, By Surg , Gynec & Obst laur. 108

Thomson visited numerous eye clinics, among them those of Luchs Elschnig, Siegrist, Axenfeld, Herbst and Hess and in a very interesting paper he reviews and comments on the preparation of the field of operation and instruments, the clothing of the surgeon and after treatment employed by the differ-

The prophylactic examination of the conjunctiva differed greatly. Many operators believe in the rigid carrying out of the Hischnig technique, many more examine a smear, use some ordinary culture media or are guided largely by the appearance of the conjunctiva as to whether the eye is fit for operation or not Axenfeld thinks pre-operative injection of antipneumococcic serum is of some value in cases where operation must be undertaken in the presence of conjunctival pneumococci. The usual method of preparation of the field consists in rubbing the sufrounding skin with benzine on a cotton swab and afterwards washing it with a fluid alcoholic neutral soap made by Gude then the conjunctival sac is flushed out with a large quantity of normal salt, or in suspected cases with a 5000 oxycyanide or

perchloride of mercury

Thomson says it has long been held by a considerable number of operators that boiling is destructive of the delicate edges and points of cataract knives wet he found on the continent that most operators boiled their knives for three minutes in the usual 1 per cent sodium bicarbonate solution I uchs insisted on the harmlessness of boiling unless the temper of the steel is incorrect. He has had cathract knives which have been boiled for forty operations and were as good as new, some, however, being destroyed by the first boiling also mentions the special retractor used by Hess, a sterilizable waterproof tissue being gripped between its two blades. This tissue covers the lid edges at the temporal and nasal sides of the retractor and prevents the accidental contact of the knife with the lid margin caruncle or skin C G DARLING

Gifford On the Technique of Frisceration of the Pye-Ball Med Herald, 1013, xxxu, 54 Ly Surg , Gynec & Obst

The author insists on the desirability of doing a simple existeration rather than an existeration plus keratectomy He proceeds as follows Straight incision through center of cornea extending for 1/2 inch into sclera on each side. Then without excising the cornea scrape out the contents of the globe with a sharp spoon and rub out the interior of the cavity vigorously with a somewhat globulir dry swab, paying particular attention both with the spoon and the swab to the cibary region, and to the entrance of the optic nerve. The cavity is then thoroughly irrigated and the anterior wall of the

eye is pushed back freely against the posterior wall with one of two good sized gauze saubs dipped in sterile oxide of anc ountment, compressive bandage seab temoved, dater forty-eight hours. The ad vantage of this procedure is its simplicity it can be done in case of emergency by a physician without either special training or special eye instruments, moreover, it is followed by less reaction, and it gives moreover, the followed by less reaction, and it gives for the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the season of the processing the processing the season of the processing

Cotterill and Mackay. Hæmatoma of Left Orbit Treated by Modified Kronlein's Operation. Brt M J, 1913, 1, 381 By Surg, Gynec & Obst

The patient, a blacksmith aged 38 years received a sharp blow on the left temple four years ago immediate swelling nor trouble occurred months later he noted that when stooping over. he had a feeling as though his left eye popped forward It seemed to resume its normal position when he assumed the erect posture In June, 1912, definite symptoms presented, though before this time the same sensation had persisted Now his left eye and lids protruded and he could not move his eye in any direction There was partial ptosis of the left upper lid and severe pain going from the left orbit to the back of his head There was no definite tumor, no pulsation, thrill nor bruit, vision almost normal, fundus negative It was evident there must be a mass at the orbital apex pushing the contents forward and interfering with the proper innervation of the ocular muscles Kronlein's operation was decided upon and the operation was performed

Operation A horseshoe shaped incision was made at the outer side of the orbit, with its base directed upwards and outwards, the lower limb of the incision being carried backwards along the zygoma The periosteal capsule of the orbit was detached and pushed inwards with the eye. The orbital margin of the frontal, the malar bone, and the zygoma were divided with a fine saw and chisel and the bone thrown upwards and outwards with the skin flap No new growth was palpable, but just inside the periosteum at the back of the orbital cavity a mass was felt which proved to be a hæmatoma a tablespoonful of recent clot was carefully removed by scoop and finger, and as nothing more could be felt except some thickening due to the wall of the hæmatoma, the wound was closed with horsebair stitches, and a collodion dressing applied

After history Two days later the proptoss was unch less obvouns, and by the tenth day the wound was completely healed and the eye apparently normal. On the twenty fourth day the pattent was discharged, and his only complaint was of slight diplopa on looling to the left Examined fix and will the vision of each eye was equal to 6/0 and 11 The vision of each eye was equal to 6/0.

There was no protrusion in any direction. The movements of the left eye appeared to be perfectly performed, but he stated that he had slight diploying no looking to but extreme left, and that he had occasionally slight pain and sensations of stretching about the left temple. He admitted, however, that these were quite trivial and that he was practically cured. M. S. Hryspasoy.

EAR

Lewis: The Inadequacy of the Drainage Sometimes Obtained by the Ordinary Myringotomy in Acute Otitis Media and a Method of Overcoming the Difficulty. Laryngoscope, 1013, XXIII, 121 By Surg, Gynec & Obst

The author reports the case of a male 65 years of age, suffering for a number of weeks with a virulent type of acute oftits media, also afflicted with diabetes mellitus. Mastond operation had been advised by the physicians but refused. On examination, Lewis found the classical signs and symptoms of acute mastoidius and advised operation, but patient refuses.

Though three paracenteses had been made, Lews made the fourth which was very a extensive micision. The next day drainage was free, but, on the following day, perforation being closed because of great exdema of the drum membrane, the lower and middle posterior portions of the drum were removed with posterior portions of the drum were removed with middle of the control of the drum were the description of the drum were the discharge coased and the perforation closed.

The author has seen several cases of acute outsi media complicated with masterditis, in which all the classical symptoms of mastoiditis were present and, though operation was refused, the patient ultimately recovered, but in all of these cases the discharge had a free exit through the drum membrane and there was not marked edema of this membrane.

He has treated twenty-two cases similar to the case described, e. cases in which the drum membrane was so ordematous as to seriously interfere with drainage and to render abortive attempts at improvement by incision of no avail. In all cases be used the punch forceps and in eighten cases recovery took place without mastord operation. In only one case the perforation failed to close

The author advocates this method of treatment only in cases in which time has proven that the usual myringotomy fails to provide the needed drainage FRANK C WINTERS

Borden Diseases of the Middle Ear and Mastold Cells. Boston M & S J, 1913, clavin, 221 By Surg, Gynec & Obst

A careful study of the records of 454 autopsies following scarlet fever, measies and diphtheria, prove inflammations of the middle ear and massion cells are present in a large majority of the fatal cases Many of the otitis media cases and most of the mastionditis were not recognized during the illness.

of the patients, not because attending physicians were negligent or careless, but for the reason that symptoms were effectively masked by other com-

plications or were entirely absent

In the clinical cases measles was the first in the number of aural complications, scarlet fever second and diphtheria third. In the fatal cases acute otitis media occurred with the same relative frequency, but the numbers were far greater percentage of acute otitis media and mastoiditis in diphtheria was 2 9 per cent in the clinical cases and 82 per cent in the fatal cases In scarlet fever it was if per cent in the chinical and 94 per cent in the fatal cases. In measles it was 28 per cent in the clin. ical and 100 per cent in the fatal cases The order of relative frequency of mastoiditis, however, completely reverses this order Diphtheria being the highest (31 per cent), scarlet fever nearly as great (26 per cent), and measles considerably lower (14 per cent), in the number of masterds involved

Bilateral otitis media was far more common than unilateral in all the fatal cases Bilateral mastoiditis was also more common in scarlet fever and diph-

theria, but not in measles

The appearance of the middle ear and mastoid cells, when diseased, presented at autopsy a sharp contrast in the different diseases In scarlet fever and measles the fluid found in these special bony cavities was usually described as yellow, white or creamy pus. In diphtheria record after record refers to it as small in amount, thick, tenacious, gummy, gelatinous, semi solid, etc., and the color as green, Jellowish green, brownish green or other colors bordering on this hue

Of the fifty nine cases of mastoiditis but six or eight of them were recognized and treated during the life of the patient, and of this number of recog nized cases but one mastoid was operated upon, when both were diseased

In but four cases was a fistulous tract found, leading to the cramal cavity, and in but one of these was septic meningitis present. This is a valuable point in diagnosis inasmuch as it proves the danger

of septic meningitis following mastoid involvement in the contagious diseases, to be comparatively slight Four cases of meningitis were found in the series but of this number but one occurred with a distinct fistulous tract leading from the mastoid or middle ear to the cramal cavity.

There was but one case of an infected jugular vein found in the entire series of fifty mine cases of mastoiditis, most of which were unrecognized and

(Edema of the brain occurred in 80 per cent of the masterd cases, but it was also found with outis media without mastoid involvement. It also occurred in a few cases where neither middle ear or mastoid were infected

A careful study of clinical and fatal cases will show a large number wherein complications of the middle ear and mastoid cells occur simultaneously with acute inflammations in the heart, pleuræ, joints, etc A further analysis will prove that spontaneous rupture of the drum membrane, or free paracentesis, will be followed by marked relief of symptoms, not only in the middle ear, but in many instances, in the other inflamed organs as well. So often does this close relationship between aural complications and inflammations of the heart, lungs, joints, etc., occur, that the middle ear and mastoid cells may be justly suspected of often being the primary foci of infection, and inflammations in the other vital organs to be secondary to them The frequency with which all existing complications subside after spontaneous tupture or free paracentesis of the drum membrane is significant of the powerful influence of aural inflammations over other complications in different parts of the body

The increased demands upon vital organs in the contagious diseases reduce their resistance to toxic influences. If at such a time the middle ear or mastoid cells promote bacterial invasion of the blood stream, the devitalized organs are in a position to readily absorb the poison, and they in turn become an added for of infection to still further increase the toxemis of the patient n

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SURGERY OF THE NOSE, THROAT, AND MOUTH

Graham: Cyst of the Pituitary Fossa, Operation by the Nasal Route Proc Roy Soc M . 1013. Vt. 61 By Surg Gynec & Obst

Female, aged 37 Failing sight for 18 months temporal headaches, drowsiness slow mental reac tion and incontinence of urine for several months At the time of examination in addition to the above, it was found that the right eye was blind optic atrophy, and the left retained vision only in the nasal field Skiagram showed pituitary fossa flattened and enlarged

The operation was performed through a submucous resection with the incision through the skin from the tip of the nose to the lip. The somer was twisted from its attachment to the sphenoid The mucous membrane was elevated from the

anterior surface of the sphenoid

The position of the pituitary fossa was found by taking a line which commences at the junction of the alæ nass and upper up and runs upward and backward to the junction of the pinns with the side of the head. A line communing at the same spot and traversing the lowest part of the orbit will be found to encroach upon the optic chiasma opening into the nituitary fossa was made by placing a long chisel parallel to the correct line with the cutting edge against the roof of the sphenoidal sinus When the bone was removed 1 to 2 dr of blood stained fluid rushed out and dura was found lying against the opening The fossa was irrigated and wound closed and sealed

The after-treatment included urotropine 45 gr

daily for seventeen days

Fifteen days after the operation the patient was practically normal except for the vision been no incontinence since the operation Layton. The Diagnosis of Suppuration in the

PARTE B PORTER

Accessory Sinuses of the Nose. Guys Hosp Gaz , 1913, XXVII, 47 By Surg , Gynec & Obst The author illustrates the diagnosis of inflamma tion of the sinuses of the nose by the demonstration of cases, and emphasizes the care and time required when examining a patient suffering from a purulent discharge The cause is either suppurative inflam mation of the mucous membrane of the nose or one or more of the sinuses which empty into the When present, the pus should be carefully wiped away and after ten minutes the nasal cavity examined again for its return. When polypi interfere with the examination they should be removed The location of the sinus involved is determined by a process of exclusion The first point to consider is

the anatomical position in the nose from which the

nus comes If from the middle meatus only, it must be from the maxillary or frontal sinuses or from the two anterior sets of ethmoidal cells If pus comes from between the middle turbinate and septum. it comes from the superior meatus and therefore from the posterior ethmoidal or sphenoidal sinus Next. the largest and most casily investigated and the one most often involved is the maxillary sinus Examination should therefore begin with this cavity It may be explored from the inferior meatus by means of a hollow needle or by the passage of a cannula through the natural opening. When the needle is in position, air should be blown through it to determine whether or not the point is beneath the mucous membrane on the other side of the an-A bubbling sound denotes that the point is at the right arch

On washing out the antrum the presence or absence of pus in the washings tells whether this sinus

is involved

The frontal sinus is next washed, using the same technique as just stated If no pus appears in the washings the ethmoidal sinuses only are at fault If the passage to the sinus is obstructed, the swollen mucous membrane should be made to shrink by adrenalin and cocaine or the anterior end of the middle turbinate is removed in order to pass the annula

If pus continues to return, then the ethmoidal cells are involved. For purpose of treatment it is not necessary, nor is it possible to differentiate

between the anterior and middle set

The safe thing to work upon is an exact diagnosis under the three heads (a) Is there any sinus disease? (b) Which sinus is involved? (c) Is each of the other sinuses free from suppuration?

WALTER II THEOBOLD

McKenzie: Diffuse Osteomyelitis from Nasal Sinus Suppuration. J Laryngol, Rhinol & Otol, 1913, XXVIII, Feb By Surg , Gynec & Obst

Mckenzie covers the subject from all sides history, literature, pathology, etiology, symptoms, diagnosis, and treatment Diffuse osteomychitis of the bones of the cranium is one of the rarest complications of nasal sinus suppuration but it is the commonest serious sequelæ of nasal sinus operations There are 48 cases in the literature, though this does not cover the number that have been recognized as such, it is used as the basis of study for this paper.

Pathology The original site of the infection is most often in the frontal sinus, though in many cases other sinuses are also involved There may be a direct invasion of the osseous spaces, canalicular and medullary, of the bony wall of the sinus, or there may be a primary infection of the efferent veins of the lining membrane of the sinus. The defensive harrier in the form of the lining membrane is destroyed by the operative procedures. A local ized ostcomyclitis is first produced. A factor in the spread is the probable infection of the diploë where they are close to the area of the wall that is involved The extent to which the cranial bones may become involved is practically unlimited and this is attributed to the thrombophicbitis of the diploic veins Microscopically the process is a purulent, ranking osterus leading to a more or less extensive destruction of all of the constituent elements of the bones In the early stage the diploe are hyperæmic interspersed here and there with drops of pus followed by the conversion of the medullary tissues of the diploe into granulation tissue bathed in pus which exudes from the cut surface. The process follows the vascular channels to the surfaces and collects to form subperigranial abscesses externally and extradural abscesses internally. The periora nium over the abscesses undergoes dissolution and the pus comes to be in the soft tissues of the scalp causing doughy or puffy swellings of the scalp which form a typical clinical feature of the disease dura is very resistant. Granulation tissue forming on the outside of it tends to keep the infection at bay There is eventually a destruction of the tables of the skull, the outer usually vielding first portions destroyed are exfoliated as sequestræ. The new formation of bone either does not appear at all or is scarcely perceptible until the process is brought to a stop, after which the defects are gener

ally filled in

The complications in the order of frequency are
leptomeningitis brain abscess, intercranial throm-

bophlebitis, and subdural abscess

The bacteriology has been little worked out Staphlococcus is the organism most frequently found in the chronic forms though the disease may be instituted by any progenic organism

Under the etiological factors, emphysis is laid on the fact that disease is more apt to follow operations on an acute case than on a chronic condition

Symphonic and course. The disease may tun an acute course of three to twelve weeks with rapid progress and almost constant pyreaus. If chronic the duration may be six months to two years, during which time the disease develops slowly and the progress is broken by periods of quiet. The characteristic finding is a pale, puffy, edematous swelling in and around the open wound which way have healed and then reopened. This swelling may have healed and then reopened. This swelling with little change in the color of the surrounding issues with little change in the color of the surrounding skin.

The prognosis is very bad as out of the reported cases there were no recoveries among the post-operative cases

Treatment The author brings out the need in the prophylaxis, of early drainage of acute sinusitis with external swelling. In quiet and uncomplicated frontal sinus suppuration, only intranasal treatment is justifiable (Hajek). Avoid breaking down the lining membrane as much as possible, in sinus operations.

In the surgical treatment it is important before operation to secure drainage of all other involved sunuses. There must then be immediate and entire removal of the diseased bone. Touch the edges of the bone with phenol, peroxide or iodoform powder. The bacterial invasion is in advance of the naked eye appearance, hence remove a strip of bone beyond the obvious limits of the disease in pol bone beyond

Serum and vaccine therapy are of value only after radical operation EARLE B FOWLER

Prendergast Sloughing of the Nasal Septum after Submucous Resection. Christand M. J., 1913, 10, 109 By Surg., Gynec & Obst

Delays in the repair process after submucous rection are due as a rule to perforations or to tear-ing of the mucous membrane during operative manipulations. Sloughing of the nasal septum when there has been no tearing of the tissue is a rare sequela. Syphilis no doubt is the most important causative factor.

The case reported is one in which fully two thirds of the nasal septium sloughed after a submucous resection. There was nothing in the operative technique to account for this condition now as there anything in the patient's history or physical examination prior to the operation to indicate that any possible untoward result could be expected any possible untoward result could be expected extract behavior of the note and the positive Wassermunn reaction were the first intimation to the patient herself that she was suffering from spyhlis

Mrs S, age 31, consulted me because of nasal obstruction and headaches The family history was

negative The personal history was also negative She claims that her health, with the exception of severe headaches, has been fairly good. The patient is a well nourished, cheerful woman apparently in ro-The examination of the nose showed bust health a deviation of the septum situated at the junction of the anterior and middle third. A submucous resection of the nasal septum was done in April, There was nothing unusual about the oper-There was no perforation or tearing of the mucous membrane The healing of the parts went on normally until two weeks after the operation when a small necrotic area situated at about the center of the normal position of the quadrilateral cartilage was noticed. She was given an alkaline spray and told to report in one week, but did not return until three weeks afterwards. At this time a large perforation was noted involving almost the entire cartilagenous portion of the septum and part of the vomer and perpendicular plate of the ethmoid Owing to the typical appearance the patient was told frankly what the clinical picture indicated She maintained, however that there was nothing in

her past history or in her physical condution that could be accounted for by the infection, but she consented to a Wassermann test reported a positive reaction The sloughing process went on rapidly. After one month of vigorous treatment it was brought to a standstill The perforation at the present time involves fully two-birds of the septium including part of the perpendicular plate of the ethmoid and the vomer. The crust formation has stopped. There are no subject twe symptoms complained of and there is no external deformity.

Abbott: Suturing the Nasal Septum after Submucous Resection Instead of Packing Clereland M. J., 1913, 211, 116 By Surg. Gyner. & Obst.

Results depend on operation dome and not to any great vetter on after-framemer. The idea is to have the two layers of inucous membrane held togs that Packing prevents nasal breathing and holds back secretions, causing discomfort and mavbe sinus infection, extraoring of sinus infection of troubles with the ears. The suturing largely avoids these the advantages are first, must breathing and lack of discomfort from retention of secretions second, discomfort from retention of secretions second, about the properties of the second of

The suturing is eastly and quickly done with a Yankauer turbinate needle a Moshier's misal speculum and a hook. Catgut, plain No o or chromicred No oo, is used. V continuous suture is used zigzagging back, and forth to cover all points. No perforations large enough to cause trouble have been seen.— due to this method.

Tilley: Temperature Chart from an Obscure Case of Streptococcal Infection of the Throat. Proc Roy Soc M., 1913, VI, 57 By Surg., Gynec & Obst

The case was that of a boys years of age. The ulleast began with a sight nor throat, the tonable were a little red and swollen and the gland under the angle of the jaw on one side tender to pressure. These symptoms quickly disappeared but the temperature continued to rise to 100°F in the evening Careful general examination failed to give any clie to the cause of the pyrexia. The general condition was good and spirits excellent. Twenty days after content, washe from the region of the right tonal streptococci in almost pure extensions of the content of the

The interesting features of the case are (a) The very slight throat symptoms and pathological appearance combined with a definite and otherwise obscure pyrexia (b) The excellent general condition of the patient (c) Small, slow healing ulcers

appeared on the tonsil after pressure with woolcovered strabismus hook. Bacteriologically the interesting points are (a) The insolation of a streptococcus appearently identical with that causing the throat lesson, from otherwise normal urine. (b) The patient did not respond to vaccine from throat (staph) lococcus and streptococcus) and did to vaccine from pure streptococcus isolated in urine. EARLE B FOMER

Harris The Importance of Preserving the Integrity of Contiguous Structures when Operating on the Tonsils J. Am. M. Ass. 1913, lx, 439 By Surg. Ganc. & Obst.

The author takes up in brief the anatomy and the physiology of the structures that are related to the hypertrophied adenoid tissues of the throat, shows their importance, and makes a plea for their preservation through greater care in operating and in the more efficient after treatment.

The velum palati is formed by the insertion or blending of the palatoglossi, the palatopharyngs, the azygos uvulæ the levator palati and the tensor palati muscles, and in itself or through these individual muscles influence intimately deglutition, respiration, phonation and ventilation of the tympanum During the act of swallowing, the palatoglossus muscles, which form the anterior pillars of the fauces, contract in such a way as to prevent extrusion of fluids or solids into the mouth while the palatopharyngeus muscles forming the posterior pillars of the fauces assist in performing a similar function for the nose by acting with the other component muscles of the velum drawing it upward and backward and closing the posterior neres. In speaking, these muscles are used in a variety of ways Thus it is shown what important structures may be injured in removing diseased faucial and pharyngeal tonsils

Admitting that such an operation has been faultlessly done, perfect local results are not likely to occur unless the granulating surfaces are frequently cleansed and astringents applied according to judgment until healing is assured. Reduction of exuberant granulation tissue by mechanical means is sometimes advisable.

The author believes that many resulting deform ities to these structures could be avoided by careful, proper technique in operating and the suggested after treatment EARLE B FOWLER

Whale The Remote Results of Tonsillotomy and Tonsillectomy; an Analytical Scrutiny of 220 Unselected Cases Land, Lond, 1913, clxxiv, 444 By Surg, Gynec & Obst

All the patients had been operated on in Harmer's clause at St. Batholonew's Hospital. There were 110 cases of tonsillotomy and 110 of tonsilletomy For obstructive dyspaces tonsilletomy is slightly more likely to cure, and much more likely to prevent recurrence. For aural troubles (deafness, Eustachan obstruction with retracted drums, Eustachan

catarrh) tonsillectomy is better. For dysphigia and for nasal affections (snoring, rhinorrhora, epistaxis) no deduction is warranted as to the operation of choice | For gastro intestinal troubles, remote affections such as various forms of goiter, and systemic infections (rheumitism chorea anamia, tuberculosis), no strong inference is jus tified It is noteworthy that in some cases rheu matism occurred after enucleation in patients who had never suffered before The following figures show that if rheumitism and chorea be classed together tonsillectomy has a slight advantage Rheumatism or chorea Tonsillectoms -cured 68 per cent, not cured 32 per cent tonsillotomy cured 63 per cent, not cured, 37 per cent tonsillitis tonsillectomy is the operation of choice because if as much tonsillar tissue as possible is removed complete in its capsule there is a greater prospect of permanent cure, and there is no prob ability of initiating an infection Laryngitis and functional voice troubles Tonsillotomy, 26result cured, 15 (58 per cent), not cured, 6 (23 per cent), uncertain 5 (19 per cent) Tonsillectomy 29-result cured, 14 (48 per cent) not cured 14 (48 per cent), uncertain i (4 per cent) two operations, tonsillotomy is more likely to cure functional defects of voice and less likely to leave such sequelæ For the cure or avordance of lymphadenttis tonsillectomy is the operation of choice Hamorrhage due to the operation After tonsillotomy, I case in 110, after tonsillectomy 8 cases in 110 An investigation of the records of 3697 tonsil operations affords strong evidence that dangerous hæmorrhage is more than twice as prob able after tonsillectomy as after tonsillotoms Deformity was found in 21 per cent of cases after tonsillotomy, and 23 per cent after tonsillectoms

He concludes that the disadvantages of tonsil lotomy are (1) the initiation of an infection, whether manifesting itself as tonsillitis lymphid enitis, or both Such sequelæ are more likely if a very free and deep removal has been performed than if only a moderate amount of the tonsil has been removed (2) Recurrence of the trouble for which the operation was performed, except in the case of voice troubles, when recurrence is no more probable than after tonsillectomy The disidiantages of tonsillectomy are (1) A risk of serious or even dangerous hemorrhage 2t operation (2) 4 risk of harmful deformity supervening later, the deformities most likely to cause harm are adhesion of the posterior faucial pillar to the posterior phary a geal wall and overgrowth of the plica triangularis (3) \ risk of voice troubles supervening later, even without any causative deformity

DONALD C BALFOUR

Peters. Multiple Papillomata of the Larynz Proc Roy Soc 11, 1913, vi 67

By Surg Gynec & Obst

The case was that of a child of nine years who had been suffering from a dysphonia for three years

There were several elongated papillomata of a pinkish gray color, growing in the region of the false cords The question was asked "Is the case suitable for the direct or, alternatively, the laryng-

Steward agreed with Horne as to the advantage of operating by the direct method and persevering until the papillomata were got rid of He advised against a thyrotomy because of the danger of a subsequent stenosis of the larynx

Hope spoke of a similar case in which the direct route had been used four times in one year, followed by the wearing of an intubation tube in this case seemed to be getting longer The intervals

Powell said that he believed a tracheotomy should be performed no matter which route was used for the removal as it would protect the child

Mckenzie said that he had showed a girl in whom a tracheotomy had been necessary and this had been of great assistance in the later removals by the direct method He asked if the members had tried the carbonate of magnesium in this condition

Rose said that he had attempted to cure two patients with calcined magnesia but without result Grant advised repeated removal followed by repeated cauterization. He said that tracheotomy was was often necessary but not a "specific" and cited

EIRLE B FORLER Freudenthal Personal Observations with Suspension Laryngoscopy. Ited Rec., 1913 Ixrui, 329 By Surg., Gynec & Obst

This new method of Killian's is described by Freudenthal as both easy to learn and of great practical value The instrumentarium necessary for suspension larvingoscopy consists of an operating table a so called gallows or stand, and the hook spatula These instruments as well as a modifica tion of the handle by Albrecht are described in

In order to operate on a patient the following procedure is carried out izing the base of the tongue the pharynx epiglottis and interior of larynx with a 20 per cent sol of cocaine the patient is placed flat on the operating The stand having been attached to the table the surgeon seats himself back of the patient one assistant to his right and a nurse on the left to hold the patient's head The nurse may be dispensed with but occasionally is of much assistance Under good illumination by the Kirstein head light the spatula is now introduced far back into the pharyny while simultaneously the assistant adjusts the stand in a horizontal and vertical direction and hangs the tongue spatula in its place The mouth is now opened wide and the adjustment of the

The view obtained is surprising We see at once the interior of the larynx more so especially the posterior commissure, we see part of the trachea, the

sinus pyriformes the pharynx, and occasionally the

upper portion of the essophagus. At the same time both hands are free for operation and the large size should be shared to the control of the

Freudenthal has operated on a number of laryngeal cases, especially those showing tuberculous lesions or papillomata and concludes that this method constitutes a valuable contribution to our

laryngological technique

Arnoldson: The Surgical Treatment of Laryngeal Tuberculosis (Zur chrurgischen Behandlung der Kehlkopituberkulose) Arch f Laryngol u Rhinol, 1413, xxvu, t

By Zentralbl f d ges Chir u i Grenzgeb

Among 600 cases of larvageal tuberculosis, the author has performed operative endolaryngeal interference in 150 cases Usually a double curette was employed, subsequent disinfection with lactic acid or malachite green was not used There never was any marked post-operative reaction or severe hæmorrhage The immediate operative result is mostly a very good one Clinically healing takes place; the function may be as good as normal but recurrences in loco are very frequent. As opposed to the treatment with the galvano cautery the author emphasizes the rapid functional improve ment and the absence of post-operative reaction by his method He recommends amoutation of the epiglottis as this relieves the difficulty in swallowing in 50 per cent of the cases External interference was employed 3 times by the author 2 laryngofissures with good result, one case of total extirpation ended fatally in 6 days after the operation

Turner and Fraser Direct Laryngoscopy, Tracheo-Bronchoscopy and Tsophagoscopy. Edinh M J, 1913, x, 126 By Surg Gynec & Obst

The authors give an account of the direct method of examining the esophigis with the anatomy indications and contra indications, difficulties and cangers and some of the cases from their records. They give the anatomy with special reference to the diameters and lengths that are of importance. They emphasize the importance of local and general examination as a precaution and an aid in diagnosis.

They give the indications for exophagoscopy as foreign bodies, continual contractions, malignant disease, cervical or mediastinal tumors pressing on the exophagus, spasms, paralysis and dilatations or nouches.

Contra indications as given by the authors include aortic aneurism, cirrhosis of the liver, severe heart lesions bronchitis, arteriosclerosis, and phthsis pulmonis, though none of these apply in the case of

foreign body

The employment of a local or general anosthetic depends almost entirely upon the psychology of the patient. The patient should lie either in dorsal or left lateral position with the knees well up to straighten the spine and an assistant holding the head. For short examinations the sitting posture may be used.

The authors believe it best to carry out the whole examination under the direct control of vision. The tube is passed over the epiglotius and gently on into the space between the arytenoid cartilages and the posterior wall of the hypopharynx. Pressure forward with a slight totary motion is used and the patient is told to swallow to relax the sphincter the state of the patient and the sphince of the patient is told to swallow to relax the sphincter title size on casal.

The cervical essophagus is closed for about 5 cm and appears as a transverse cleft. The thoracic portion is roomy and has a more or less quadrilateral lumen. The inner tube must be introduced to see faither and moved from side to side to see the walls somewhat hey ond this point, if the distail end of the appears as a rosette. It is also important to exomine carefully during the withdrawal of the tube.

On the left anterior wall, in the region of the bifurcation of the traches, two bulgings can be seen, the upper the pulsating arch of the aorta, the lower the left main bronchus Sluggish peristaltic waves should be seen passing in about six seconds from the mouth to the cardia.

There are four points at which the exophagus is narrowed and these are the most frequent locations of pathological strictures. They are (1) cervical, (2) aortic, (3) bronchial, (4) diaphragmatic. No attempt should be made to force a tube through a stricture. For after treatment, rest in bed and

sterile hounds is advised

The article is concluded by a brief summary of the most common pathological conditions and reports of seven cases illustrating the findings and results of examination in some of these

EARLE B FOWLER

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